OIPE JC143
APR 0 6 2004
PATENT & TRADEMARK OFFICE

FIG. 1

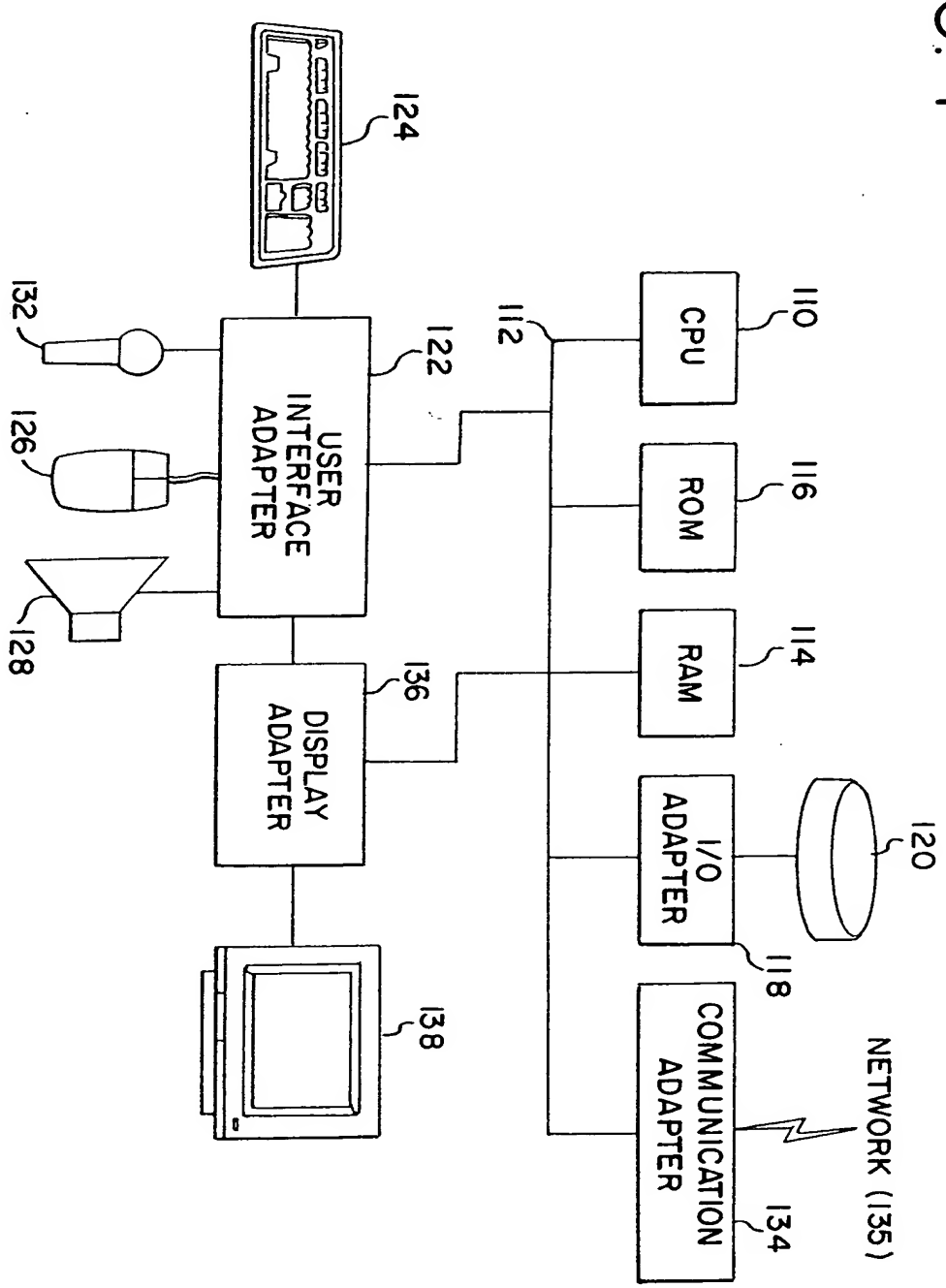


FIG. 2

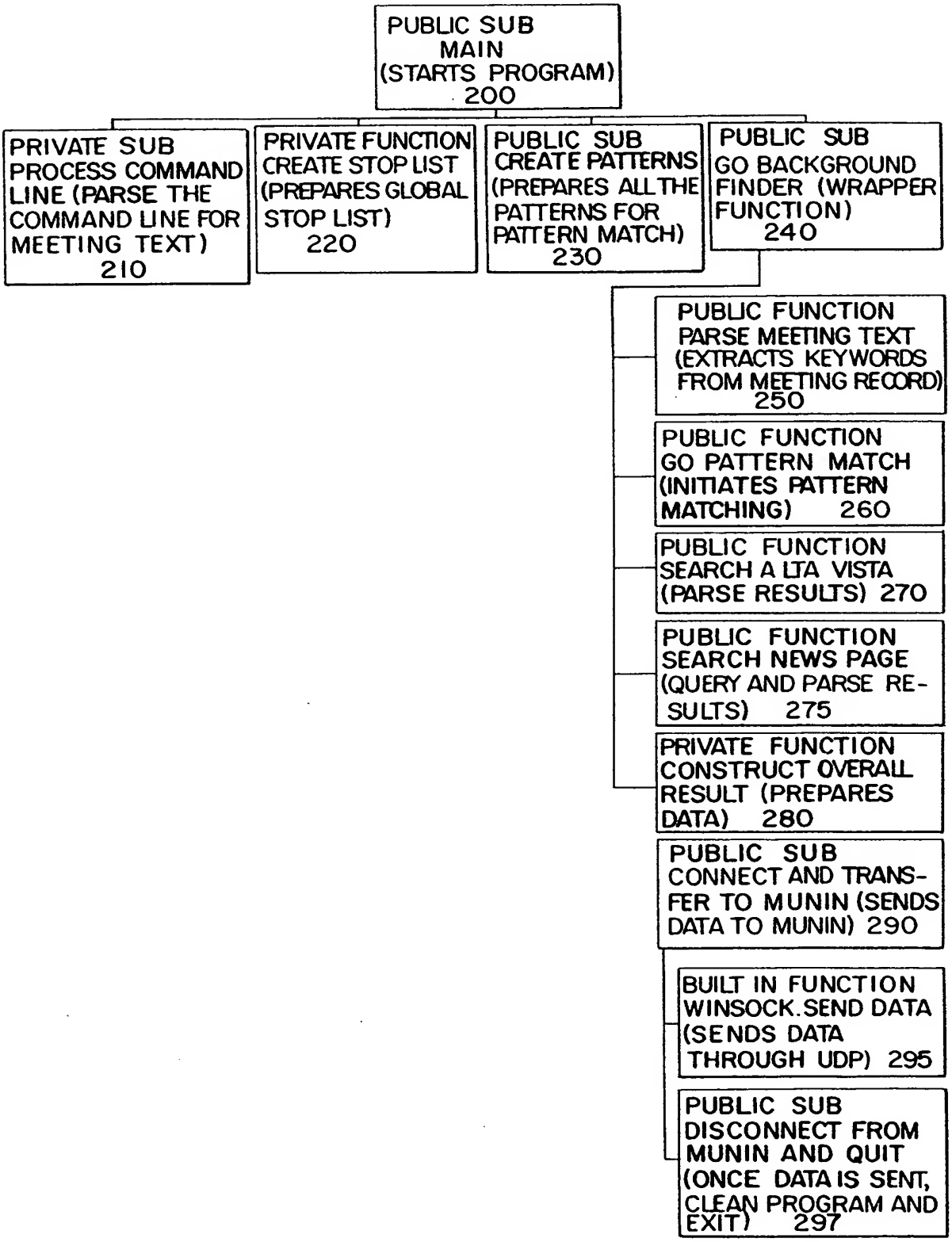

PUBLIC SUB MAIN (STARTS PROGRAM) 200
PRIVATE SUB PROCESS COMMAND LINE (PARSE THE COMMAND LINE FOR MEETING TEXT) 210
PRIVATE FUNCTION CREATE STOP LIST (PREPARES GLOBAL STOP LIST) 220
PUBLIC SUB CREATE PATTERNS (PREPARES ALL THE PATTERNS FOR PATTERN MATCH) 230
PUBLIC SUB GO BACKGROUND FINDER (WRAPPER FUNCTION) 240
PUBLIC FUNCTION PARSE MEETING TEXT (EXTRACTS KEYWORDS FROM MEETING RECORD) 250
PUBLIC FUNCTION GO PATTERN MATCH (INITIATES PATTERN MATCHING) 260
PUBLIC FUNCTION SEARCH A LTA VISTA (PARSE RESULTS) 270
PUBLIC FUNCTION SEARCH NEWS PAGE (QUERY AND PARSE RESULTS) 275
PRIVATE FUNCTION CONSTRUCT OVERALL RESULT (PREPARES DATA) 280
PUBLIC SUB CONNECT AND TRANSFER TO MUNIN (SENDS DATA TO MUNIN) 290
BUILT IN FUNCTION WINSOCK.SEND DATA (SENDS DATA THROUGH UDP) 295
PUBLIC SUB DISCONNECT FROM MUNIN AND QUIT (ONCE DATA IS SENT, CLEAN PROGRAM AND EXIT) 297

FIG. 3

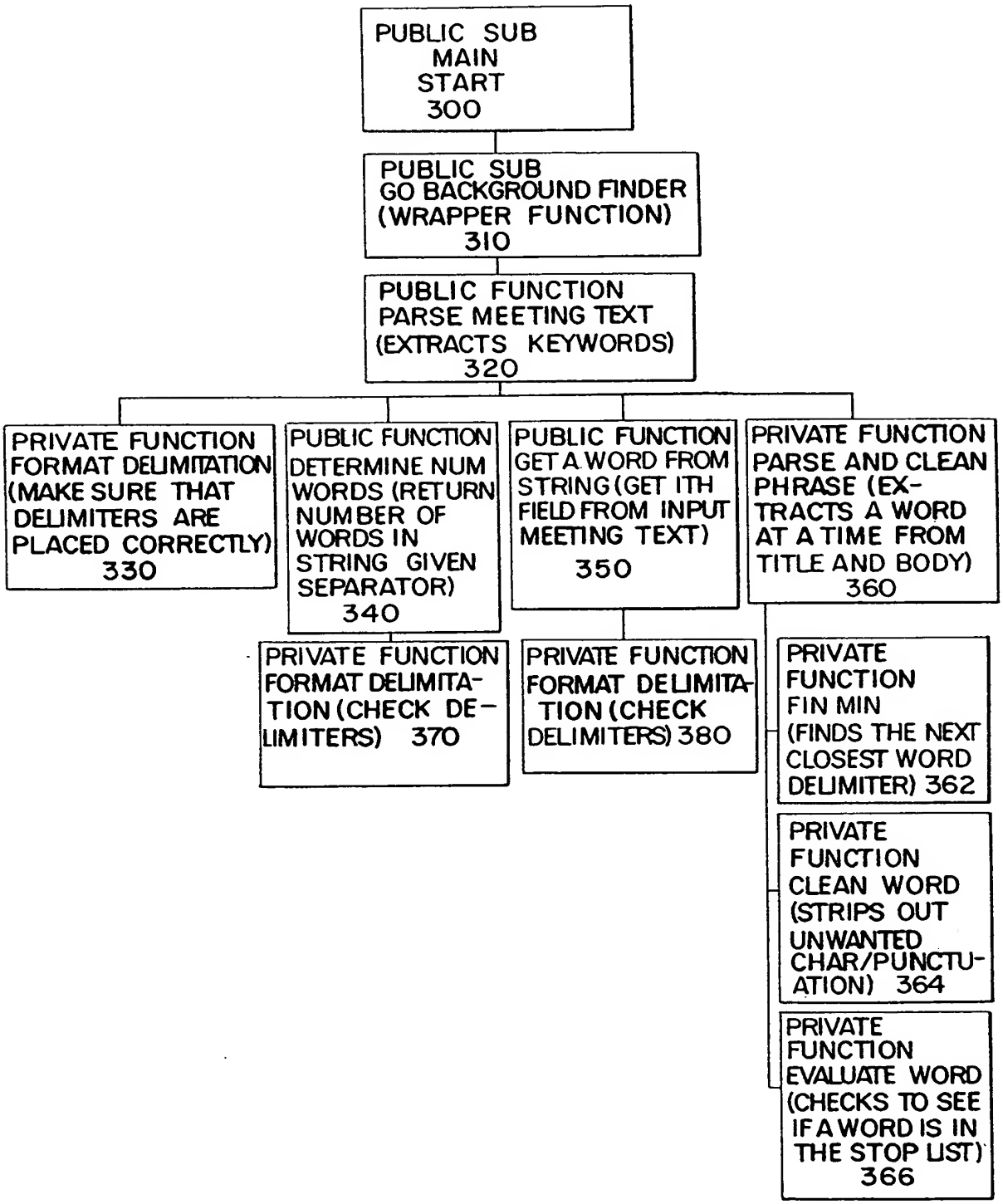

PUBLIC SUB MAIN START 300
PUBLIC SUB GO BACKGROUND FINDER (WRAPPER FUNCTION) 310
PUBLIC FUNCTION PARSE MEETING TEXT (EXTRACTS KEYWORDS) 320
PRIVATE FUNCTION FORMAT DELIMITATION (MAKE SURE THAT DELIMITERS ARE PLACED CORRECTLY) 330
PUBLIC FUNCTION DETERMINE NUM WORDS (RETURN NUMBER OF WORDS IN STRING GIVEN SEPARATOR) 340
PUBLIC FUNCTION GET A WORD FROM STRING (GET ITH FIELD FROM INPUT MEETING TEXT) 350
PRIVATE FUNCTION PARSE AND CLEAN PHRASE (EXTRACTS A WORD AT A TIME FROM TITLE AND BODY) 360
PRIVATE FUNCTION FORMAT DELIMITATION (CHECK DELIMITERS) 370
PRIVATE FUNCTION FORMAT DELIMITATION (CHECK DELIMITERS) 380
PRIVATE FUNCTION FIN MIN (FINDS THE NEXT CLOSEST WORD DELIMITER) 362
PRIVATE FUNCTION CLEAN WORD (STRIPS OUT UNWANTED CHAR/PUNCTUATION) 364
PRIVATE FUNCTION EVALUATE WORD (CHECKS TO SEE IF A WORD IS IN THE STOP LIST) 366

FIG. 4

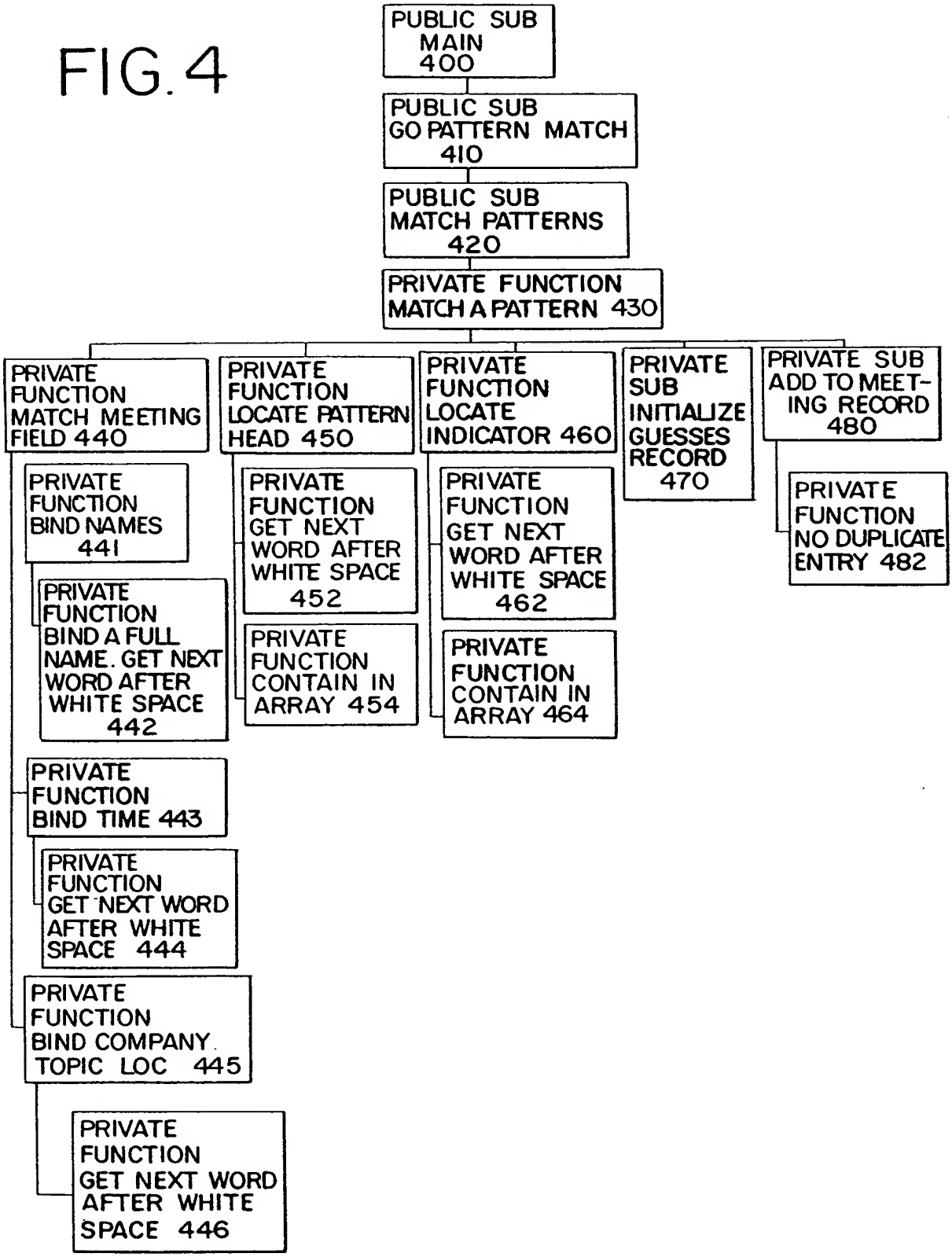

PUBLIC SUB MAIN 400
PUBLIC SUB GO PATTERN MATCH 410
PUBLIC SUB MATCH PATTERNS 420
PRIVATE FUNCTION MATCH A PATTERN 430
PRIVATE FUNCTION MATCH MEETING FIELD 440
PRIVATE FUNCTION BIND NAMES 441
PRIVATE FUNCTION BIND A FULL NAME. GET NEXT WORD AFTER WHITE SPACE 442
PRIVATE FUNCTION BIND TIME 443
PRIVATE FUNCTION GET NEXT WORD AFTER WHITE SPACE 444
PRIVATE FUNCTION BIND COMPANY TOPIC LOC 445
PRIVATE FUNCTION GET NEXT WORD AFTER WHITE SPACE 446
PRIVATE FUNCTION LOCATE PATTERN HEAD 450
PRIVATE FUNCTION GET NEXT WORD AFTER WHITE SPACE 452
PRIVATE FUNCTION CONTAIN IN ARRAY 454
PRIVATE FUNCTION LOCATE INDICATOR 460
PRIVATE FUNCTION GET NEXT WORD AFTER WHITE SPACE 462
PRIVATE FUNCTION CONTAIN IN ARRAY 464
PRIVATE SUB INITIALIZE GUESSES RECORD 470
PRIVATE SUB ADD TO MEETING RECORD 480
PRIVATE FUNCTION NO DUPLICATE ENTRY 482

FIG. 5

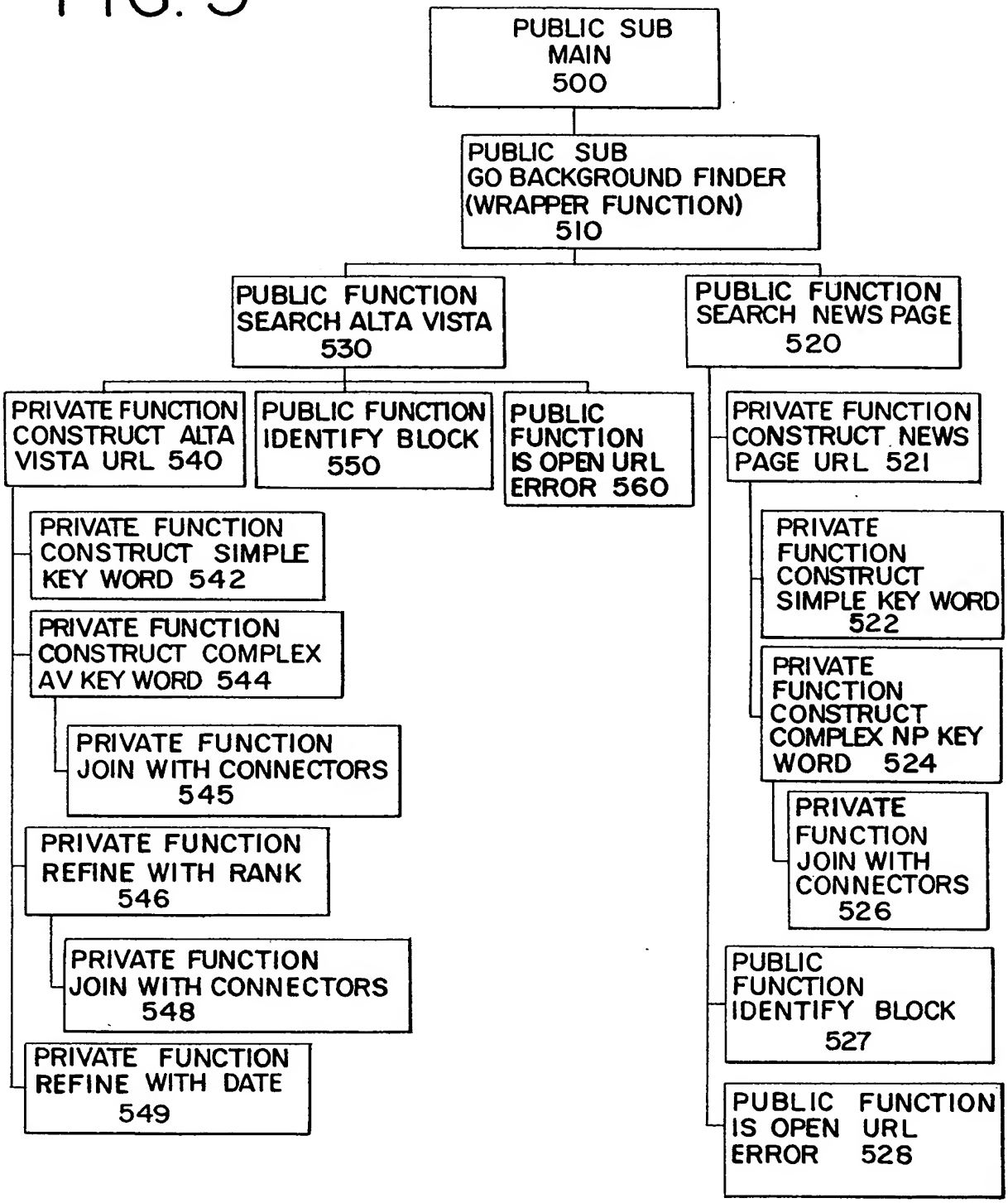

PUBLIC SUB MAIN 500
PUBLIC SUB GO BACKGROUND FINDER (WRAPPER FUNCTION) 510
PUBLIC FUNCTION SEARCH ALTA VISTA 530
PUBLIC FUNCTION SEARCH NEWS PAGE 520
PRIVATE FUNCTION CONSTRUCT ALTA VISTA URL 540
PUBLIC FUNCTION IDENTIFY BLOCK 550
PUBLIC FUNCTION IS OPEN URL ERROR 560
PRIVATE FUNCTION CONSTRUCT NEWS PAGE URL 521
PRIVATE FUNCTION CONSTRUCT SIMPLE KEY WORD 542
PRIVATE FUNCTION CONSTRUCT SIMPLE KEY WORD 522
PRIVATE FUNCTION CONSTRUCT COMPLEX AV KEY WORD 544
PRIVATE FUNCTION CONSTRUCT COMPLEX NP KEY WORD 524
PRIVATE FUNCTION JOIN WITH CONNECTORS 545
PRIVATE FUNCTION JOIN WITH CONNECTORS 526
PRIVATE FUNCTION REFINE WITH RANK 546
PUBLIC FUNCTION IDENTIFY BLOCK 527
PRIVATE FUNCTION JOIN WITH CONNECTORS 548
PUBLIC FUNCTION IS OPEN URL ERROR 528
PRIVATE FUNCTION REFINE WITH DATE 549

FIG.6

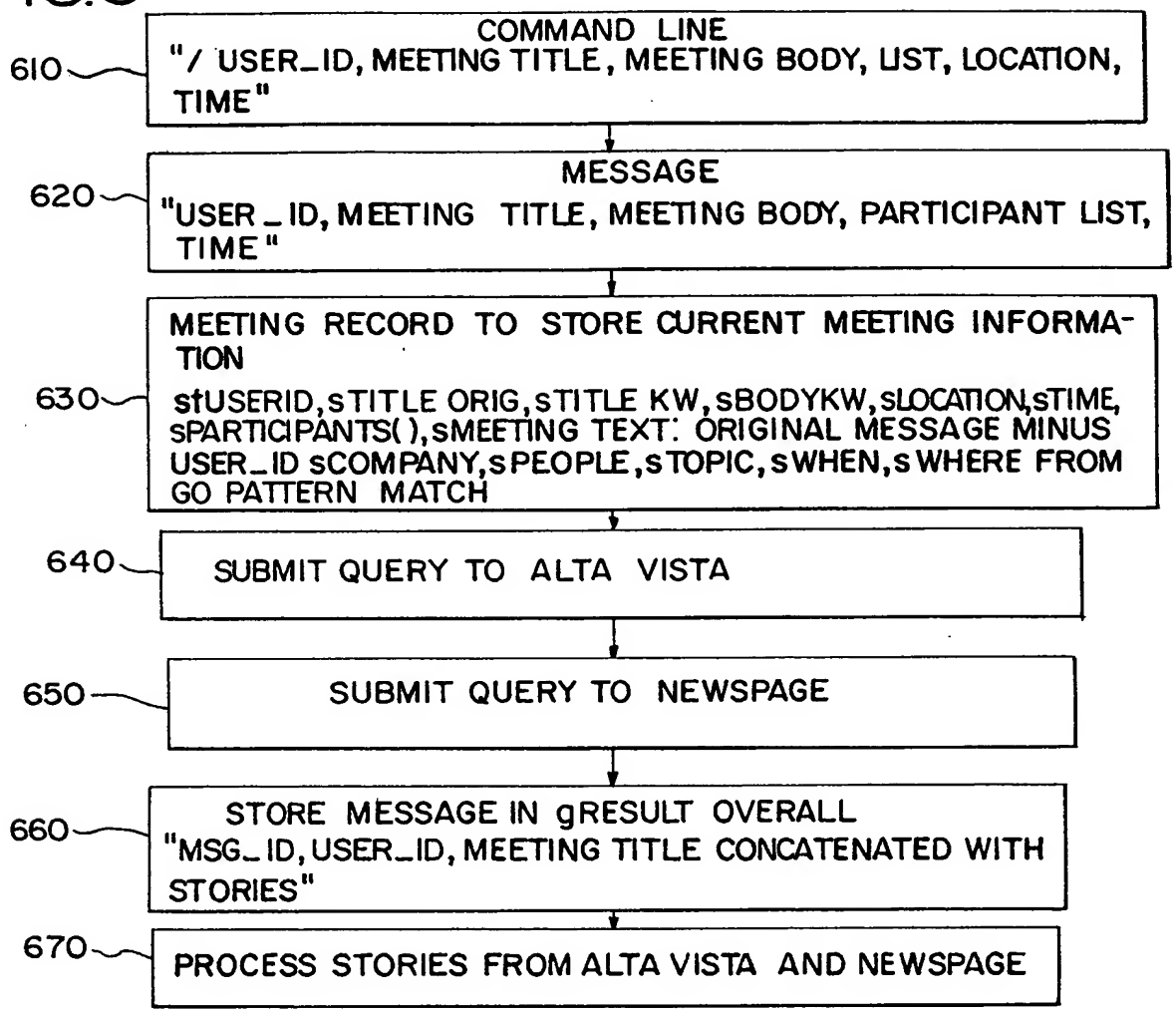

610
COMMAND LINE
"/ USER_ID, MEETING TITLE, MEETING BODY, LIST, LOCATION, TIME"
620
MESSAGE
"USER_ID, MEETING TITLE, MEETING BODY, PARTICIPANT LIST, TIME"
630
MEETING RECORD TO STORE CURRENT MEETING INFORMATION
stUSERID, sTITLE ORIG, sTITLE KW, sBODYKW, sLOCATION, sTIME, sPARTICIPANTS( ), sMEETING TEXT: ORIGINAL MESSAGE MINUS USER_ID sCOMPANY, sPEOPLE, sTOPIC, sWHEN, sWHERE FROM GO PATTERN MATCH
640
SUBMIT QUERY TO ALTA VISTA
650
SUBMIT QUERY TO NEWSPAGE
660
STORE MESSAGE IN gRESULT OVERALL
"MSG_ID, USER_ID, MEETING TITLE CONCATENATED WITH STORIES"
670
PROCESS STORIES FROM ALTA VISTA AND NEWSPAGE

FIG. 7

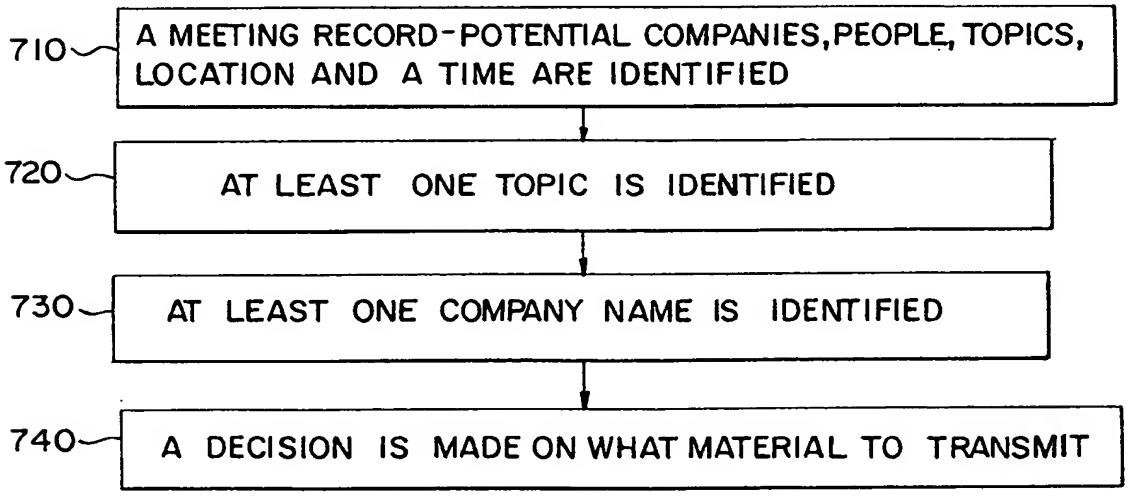

710
A MEETING RECORD-POTENTIAL COMPANIES, PEOPLE, TOPICS, LOCATION AND A TIME ARE IDENTIFIED
720
AT LEAST ONE TOPIC IS IDENTIFIED
730
AT LEAST ONE COMPANY NAME IS IDENTIFIED
740
A DECISION IS MADE ON WHAT MATERIAL TO TRANSMIT

FIG. 8

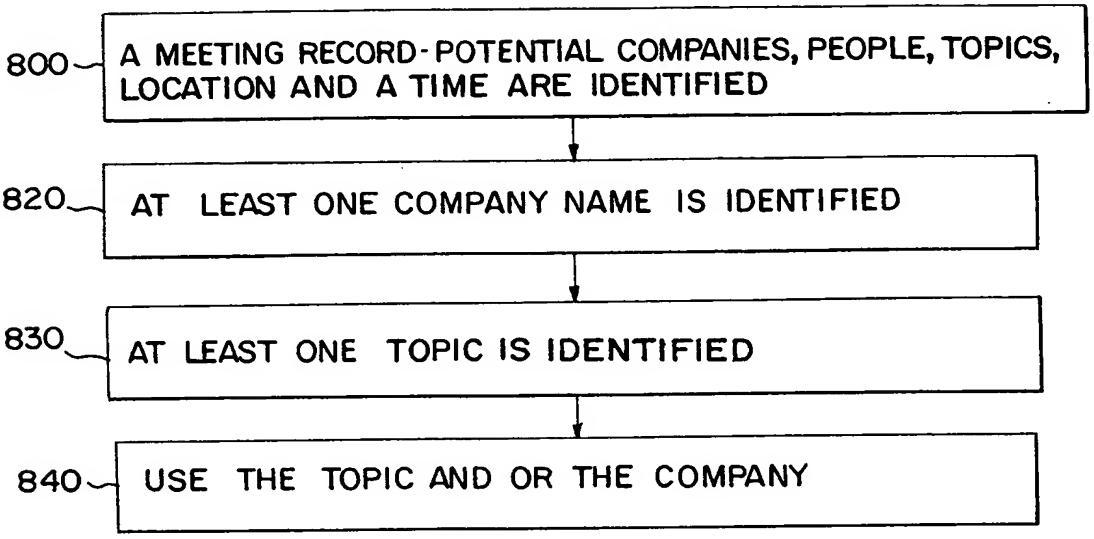

800
A MEETING RECORD - POTENTIAL COMPANIES, PEOPLE, TOPICS, LOCATION AND A TIME ARE IDENTIFIED
820
AT LEAST ONE COMPANY NAME IS IDENTIFIED
830
AT LEAST ONE TOPIC IS IDENTIFIED
840
USE THE TOPIC AND OR THE COMPANY

FIG. 9

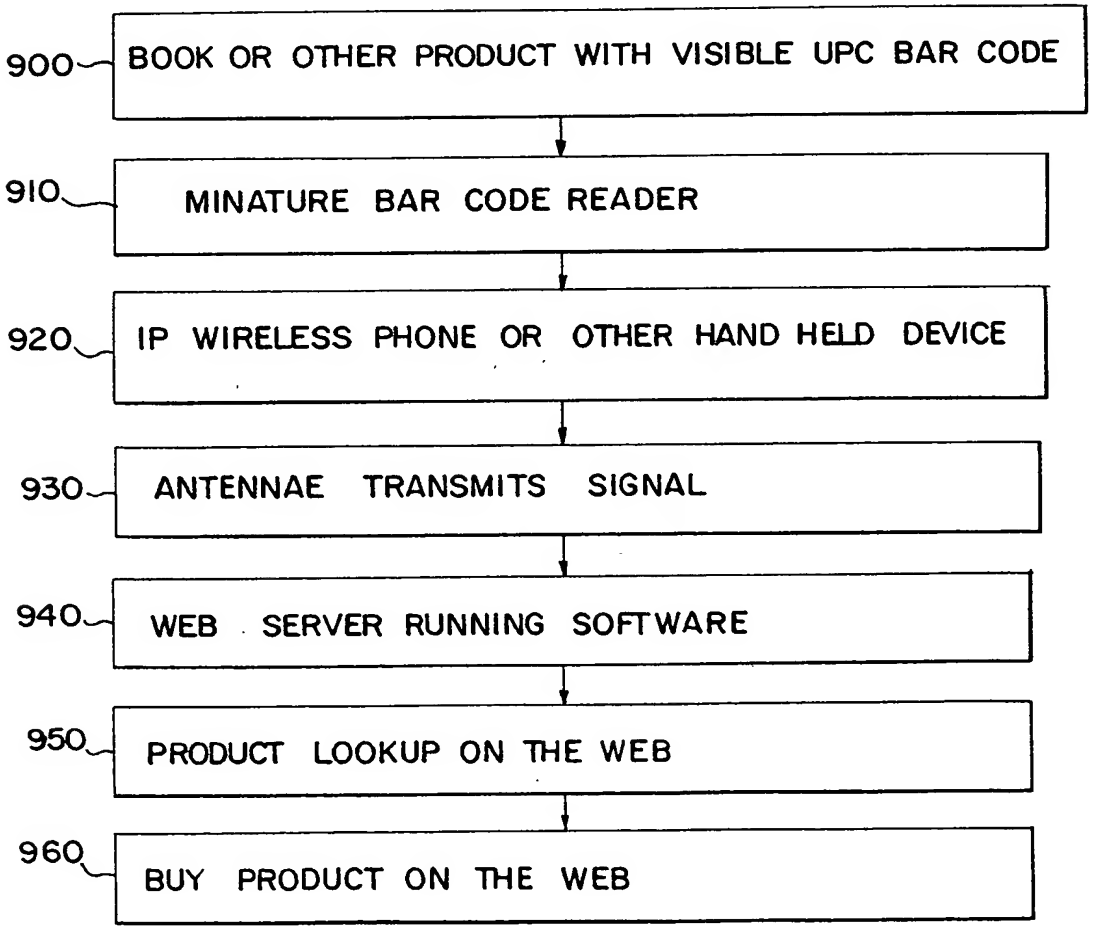

900
BOOK OR OTHER PRODUCT WITH VISIBLE UPC BAR CODE
910
MINATURE BAR CODE READER
920
IP WIRELESS PHONE OR OTHER HAND HELD DEVICE
930
ANTENNAE TRANSMITS SIGNAL
940
WEB SERVER RUNNING SOFTWARE
950
PRODUCT LOOKUP ON THE WEB
960
BUY PRODUCT ON THE WEB

FIG. 10A

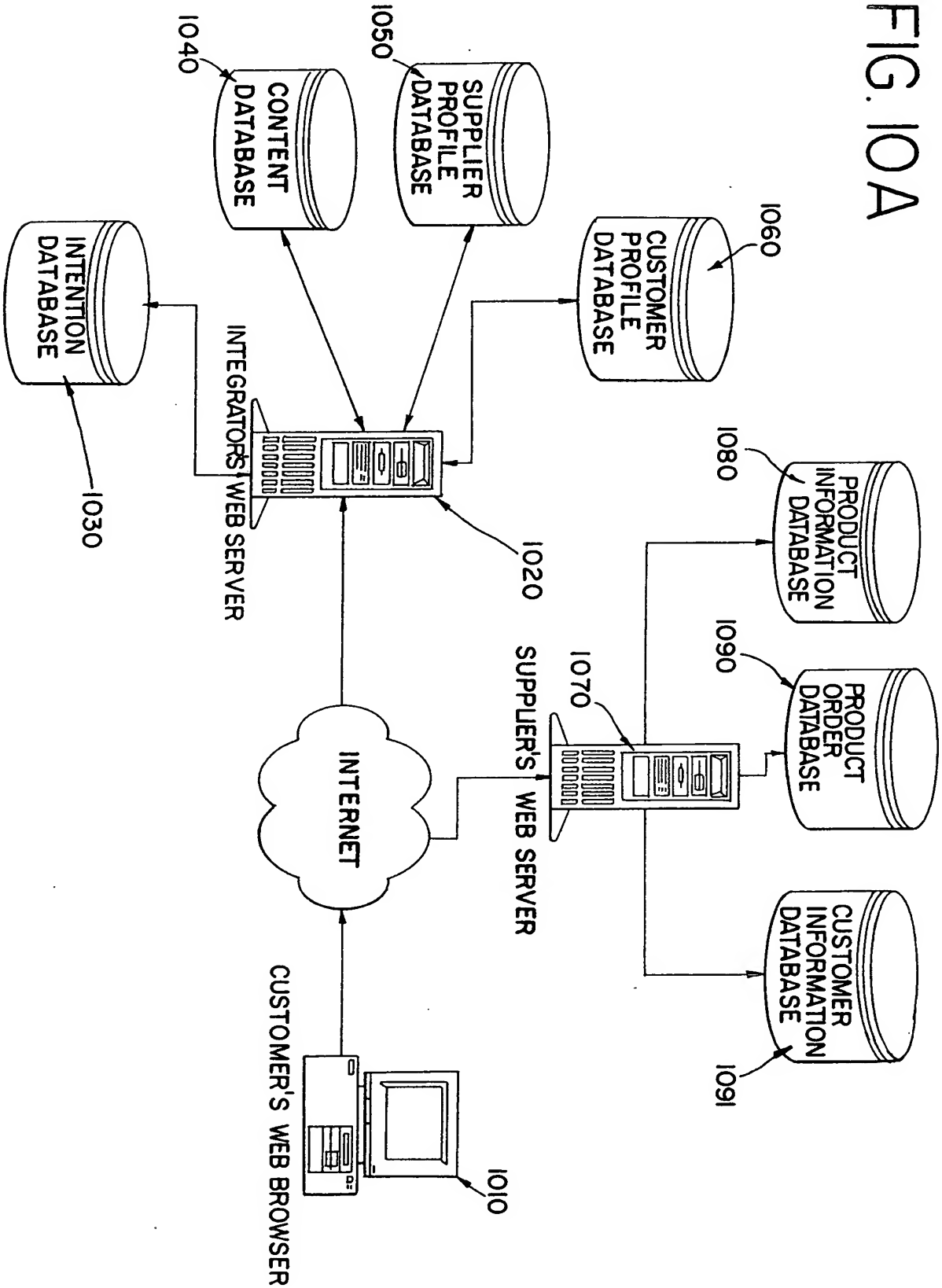

1040
CONTENT DATABASE
1050
SUPPLIER PROFILE DATABASE
1060
CUSTOMER PROFILE DATABASE
1030
INTENTION DATABASE
INTEGRATOR'S WEB SERVER
1020
1080
PRODUCT INFORMATION DATABASE
1090
PRODUCT ORDER DATABASE
1070
SUPPLIER'S WEB SERVER
INTERNET
1091
CUSTOMER INFORMATION DATABASE
CUSTOMER'S WEB BROWSER
1010

FIG. 10B

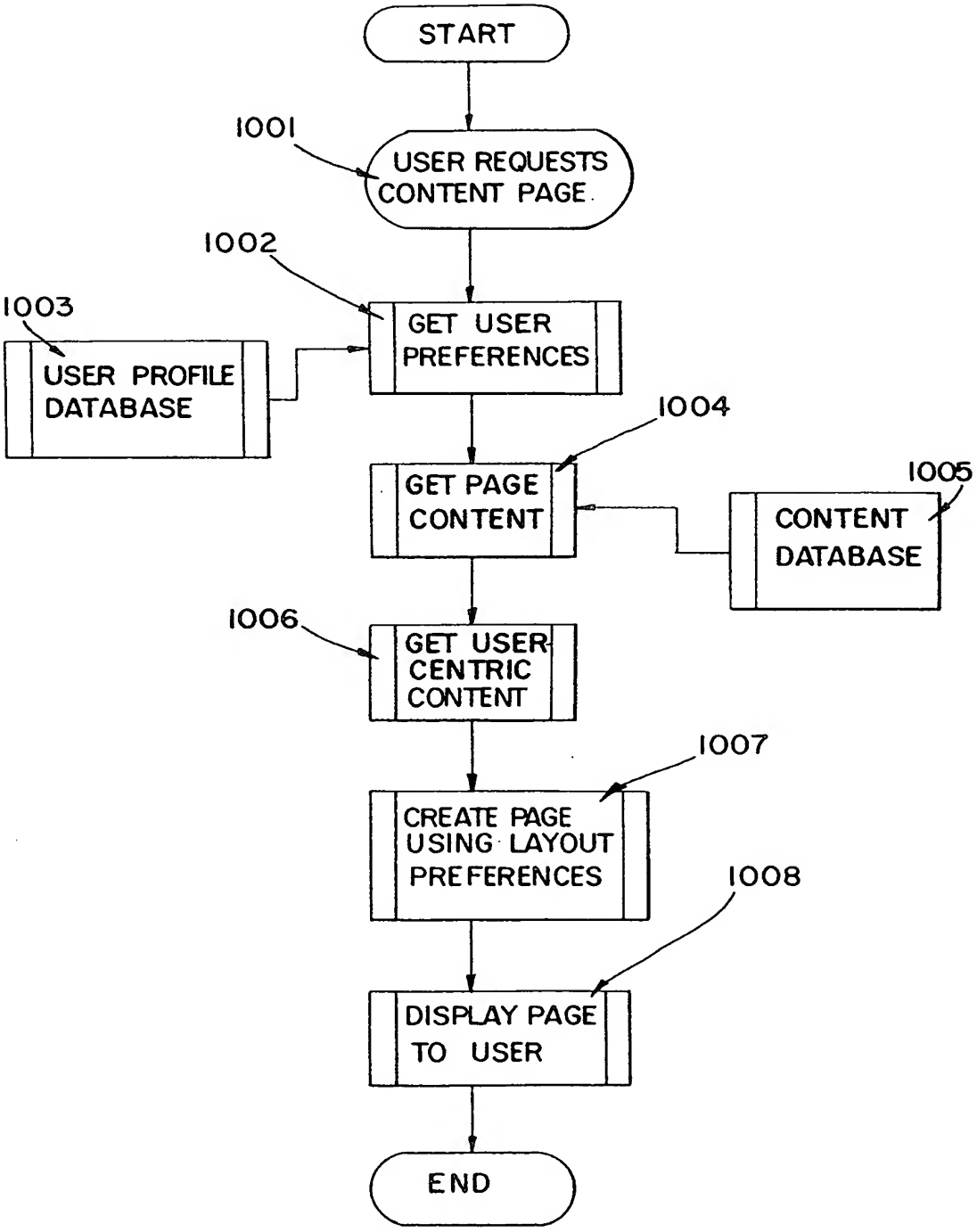

START
1001
USER REQUESTS CONTENT PAGE
1002
GET USER PREFERENCES
1003
USER PROFILE DATABASE
1004
GET PAGE CONTENT
1005
CONTENT DATABASE
1006
GET USER CENTRIC CONTENT
1007
CREATE PAGE USING LAYOUT PREFERENCES
1008
DISPLAY PAGE TO USER
END

FIG. 11

RETRIEVE USER-CENTRIC CONTENT

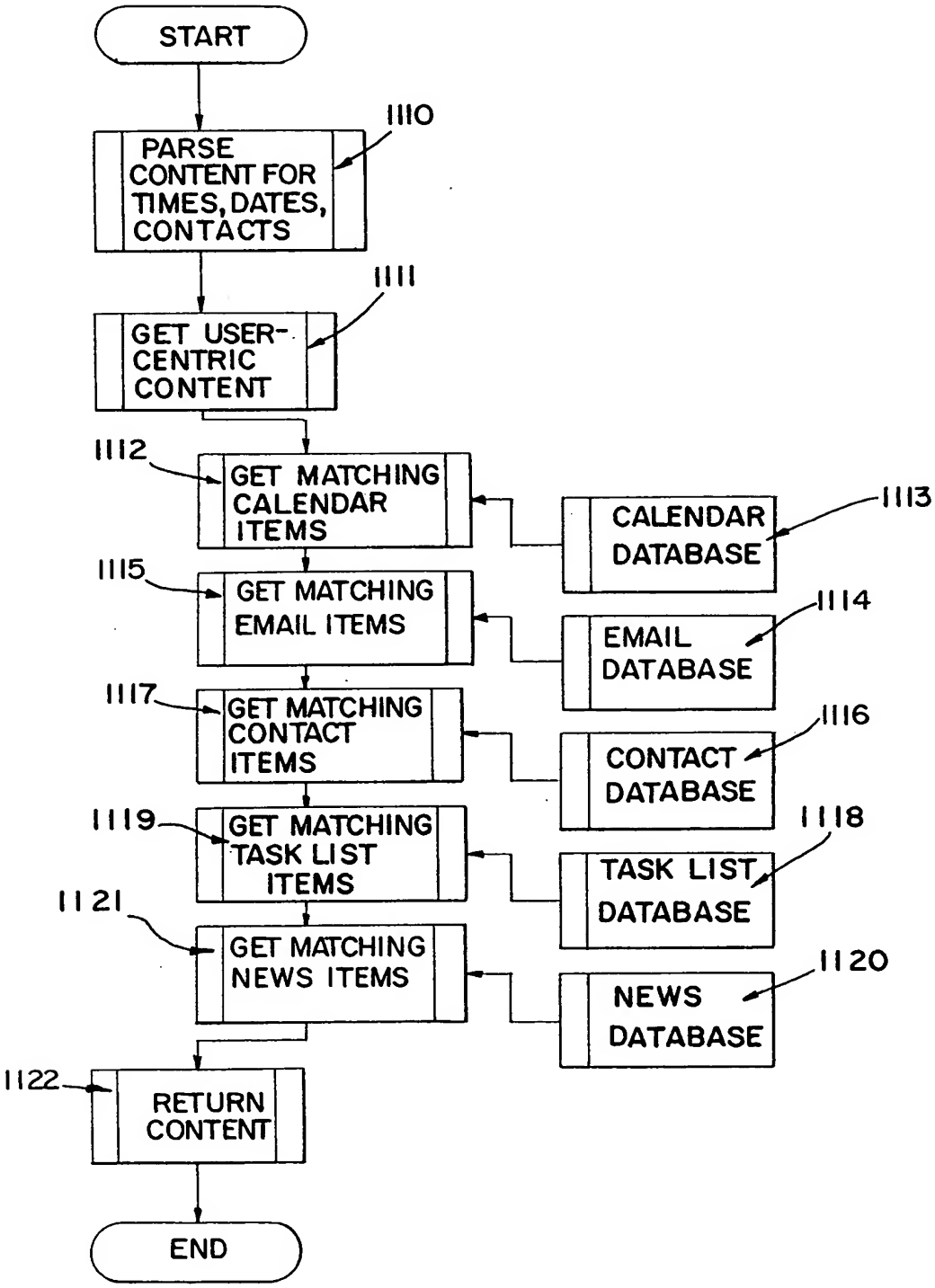
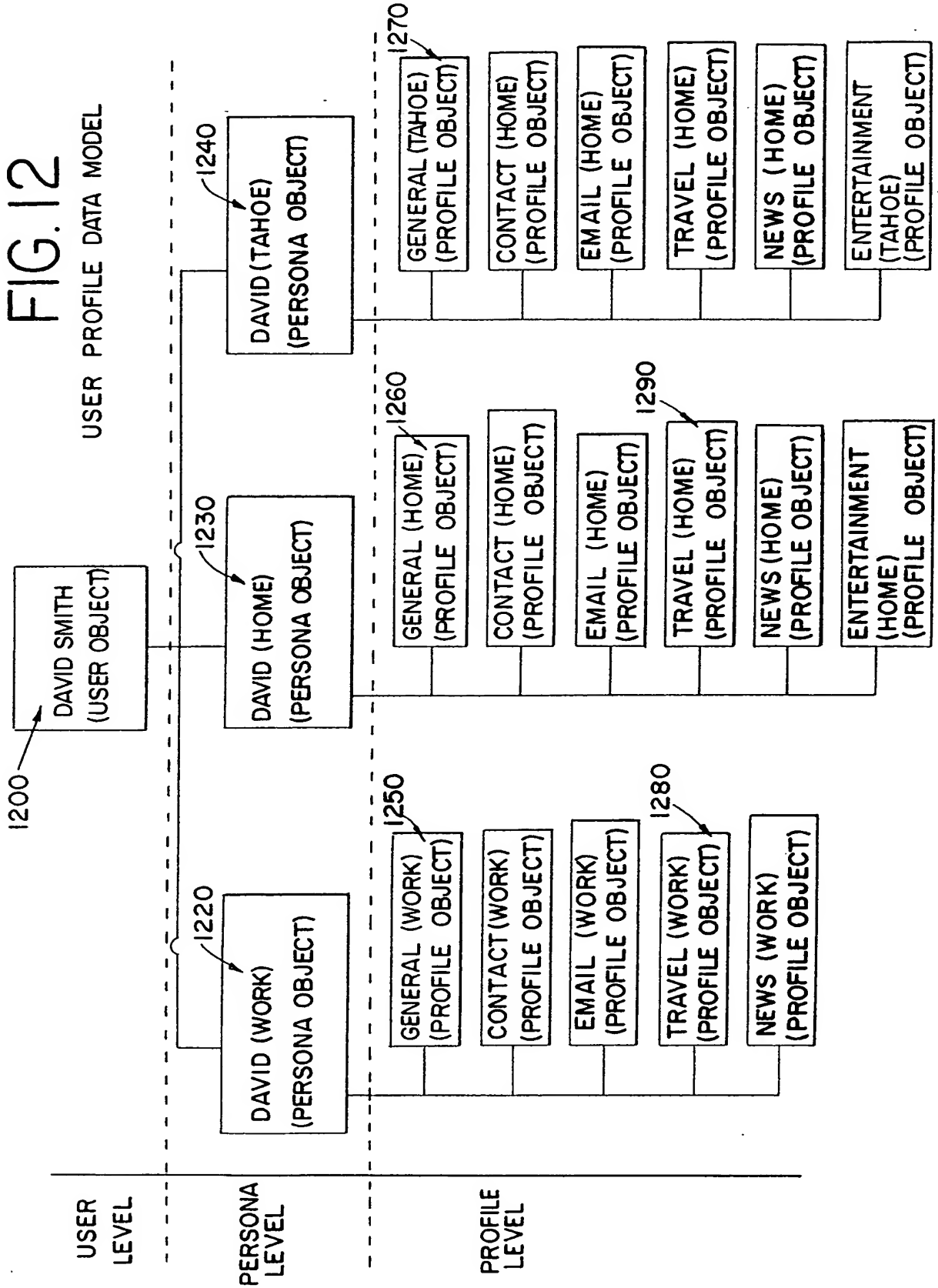


FIG. 12


USER PROFILE DATA MODEL
1200
DAVID SMITH (USER OBJECT)
1220
DAVID (WORK) (PERSONA OBJECT)
1230
DAVID (HOME) (PERSONA OBJECT)
1240
DAVID (TAHOE) (PERSONA OBJECT)
1250
GENERAL (WORK) (PROFILE OBJECT)
CONTACT (WORK) (PROFILE OBJECT)
EMAIL (WORK) (PROFILE OBJECT)
1280
TRAVEL (WORK) (PROFILE OBJECT)
NEWS (WORK) (PROFILE OBJECT)
1260
GENERAL (HOME) (PROFILE OBJECT)
CONTACT (HOME) (PROFILE OBJECT)
EMAIL (HOME) (PROFILE OBJECT)
1290
TRAVEL (HOME) (PROFILE OBJECT)
NEWS (HOME) (PROFILE OBJECT)
ENTERTAINMENT (HOME) (PROFILE OBJECT)
1270
GENERAL (TAHOE) (PROFILE OBJECT)
CONTACT (HOME) (PROFILE OBJECT)
EMAIL (HOME) (PROFILE OBJECT)
TRAVEL (HOME) (PROFILE OBJECT)
NEWS (HOME) (PROFILE OBJECT)
ENTERTAINMENT (TAHOE) (PROFILE OBJECT)
USER LEVEL
PERSONA LEVEL
PROFILE LEVEL

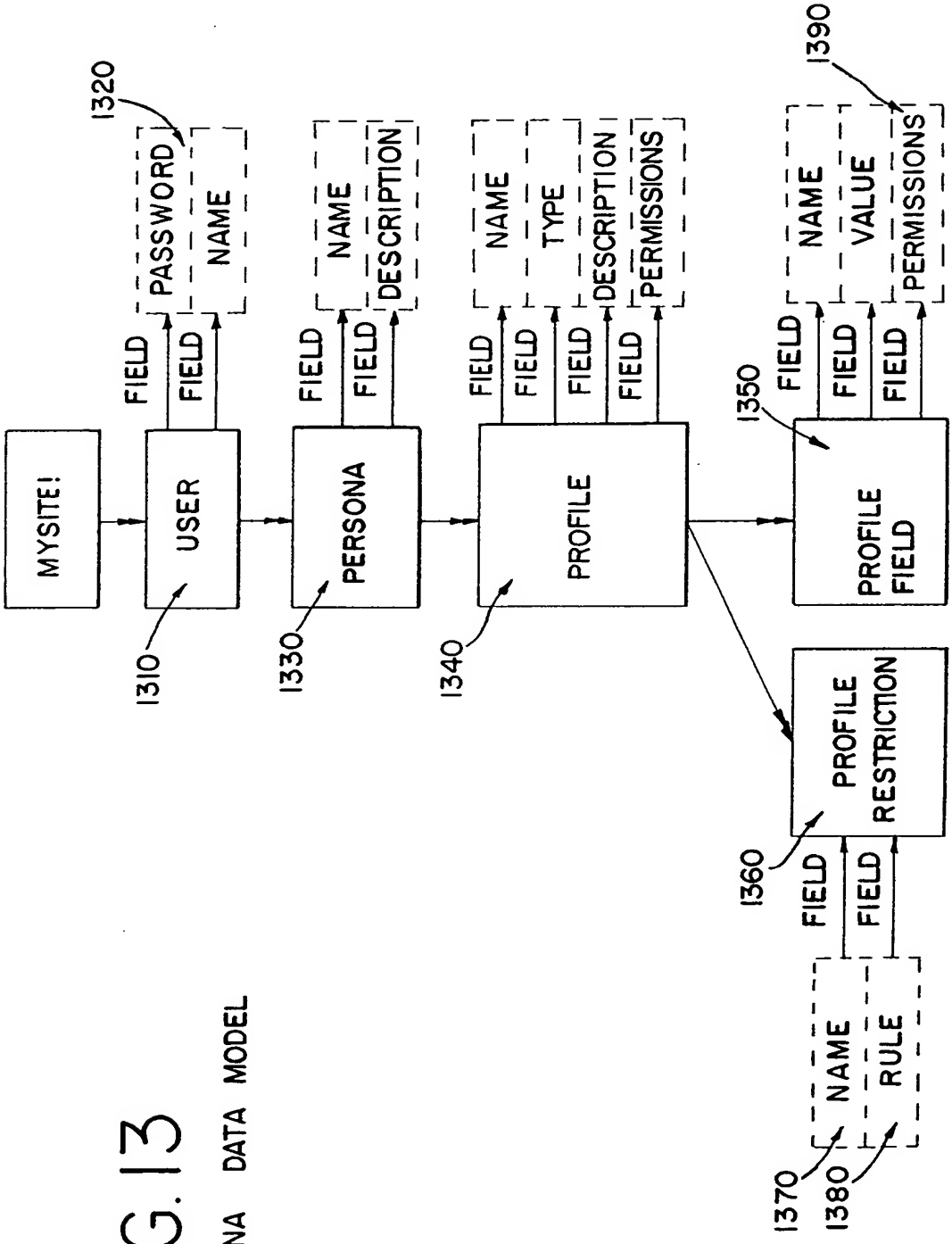


FIG. 13

PERSONA DATA MODEL

FIG. 14

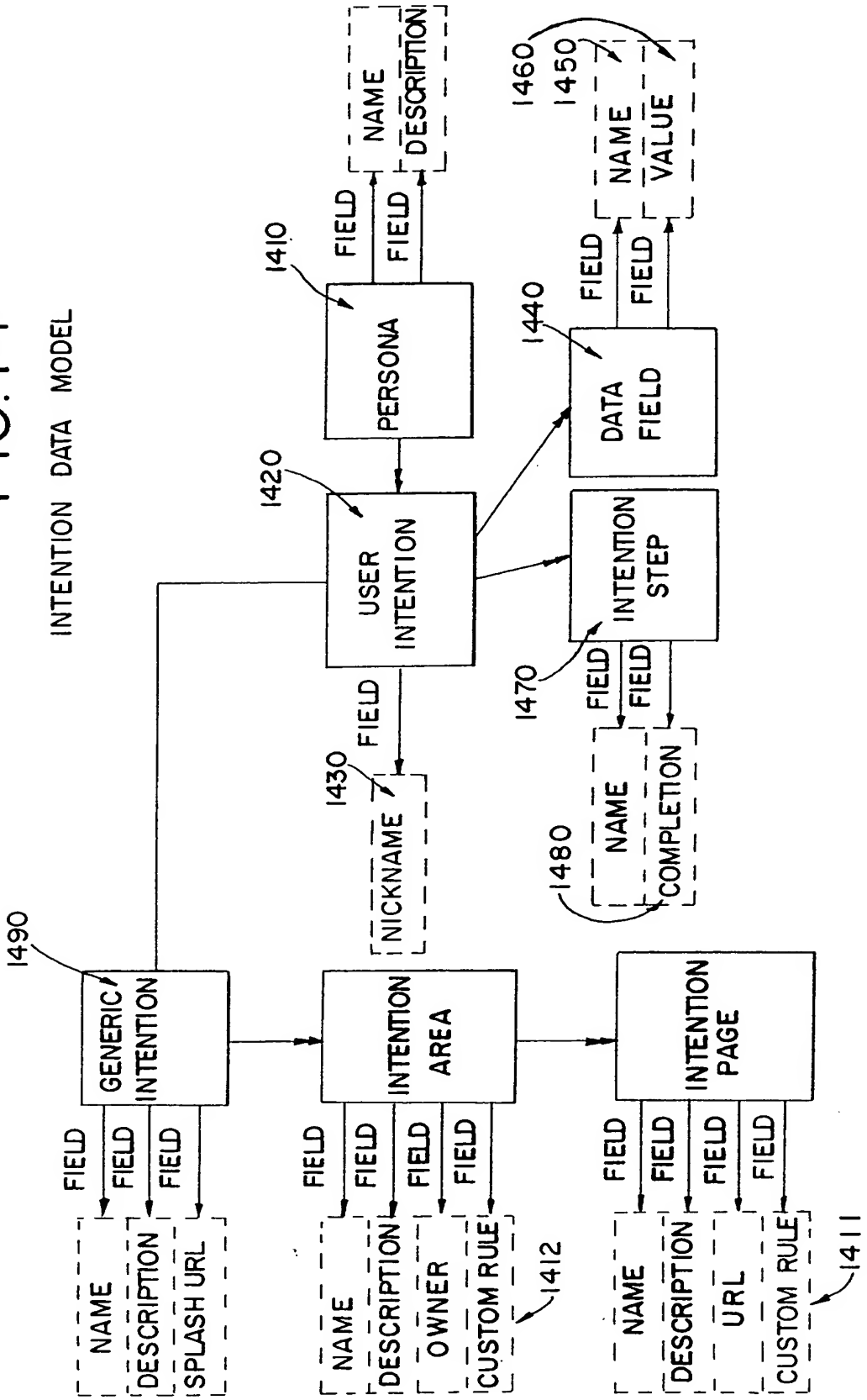

INTENTION DATA MODEL
PERSONA
USER INTENTION
DATA FIELD
INTENTION STEP
NICKNAME
NAME COMPLETION
GENERIC INTENTION
INTENTION AREA
INTENTION PAGE
NAME
DESCRIPTION
NAME VALUE
SPLASH URL
OWNER
CUSTOM RULE
URL
FIELD
1410
1420
1430
1440
1450
1460
1470
1480
1490
1411
1412

FIG. 15

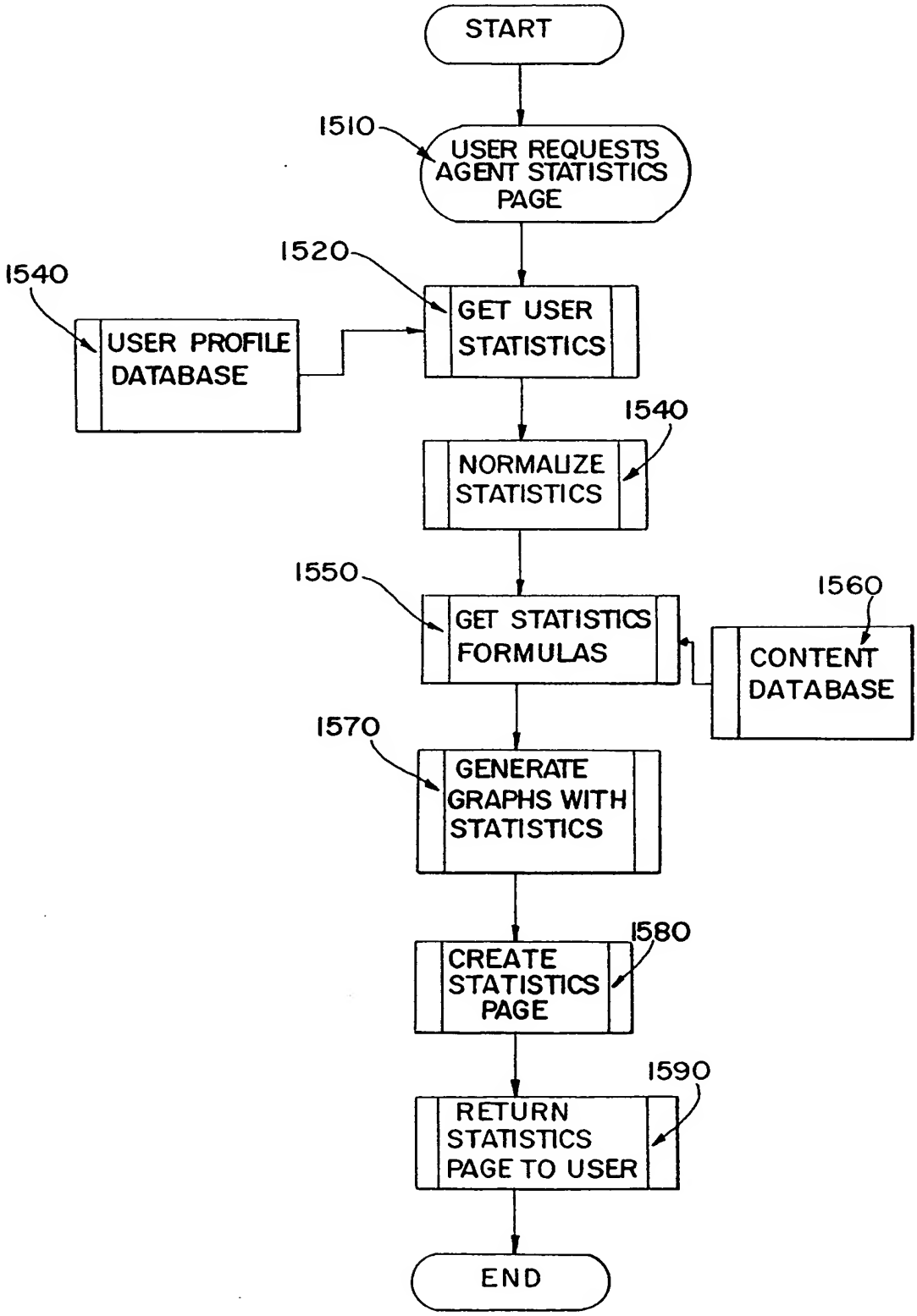
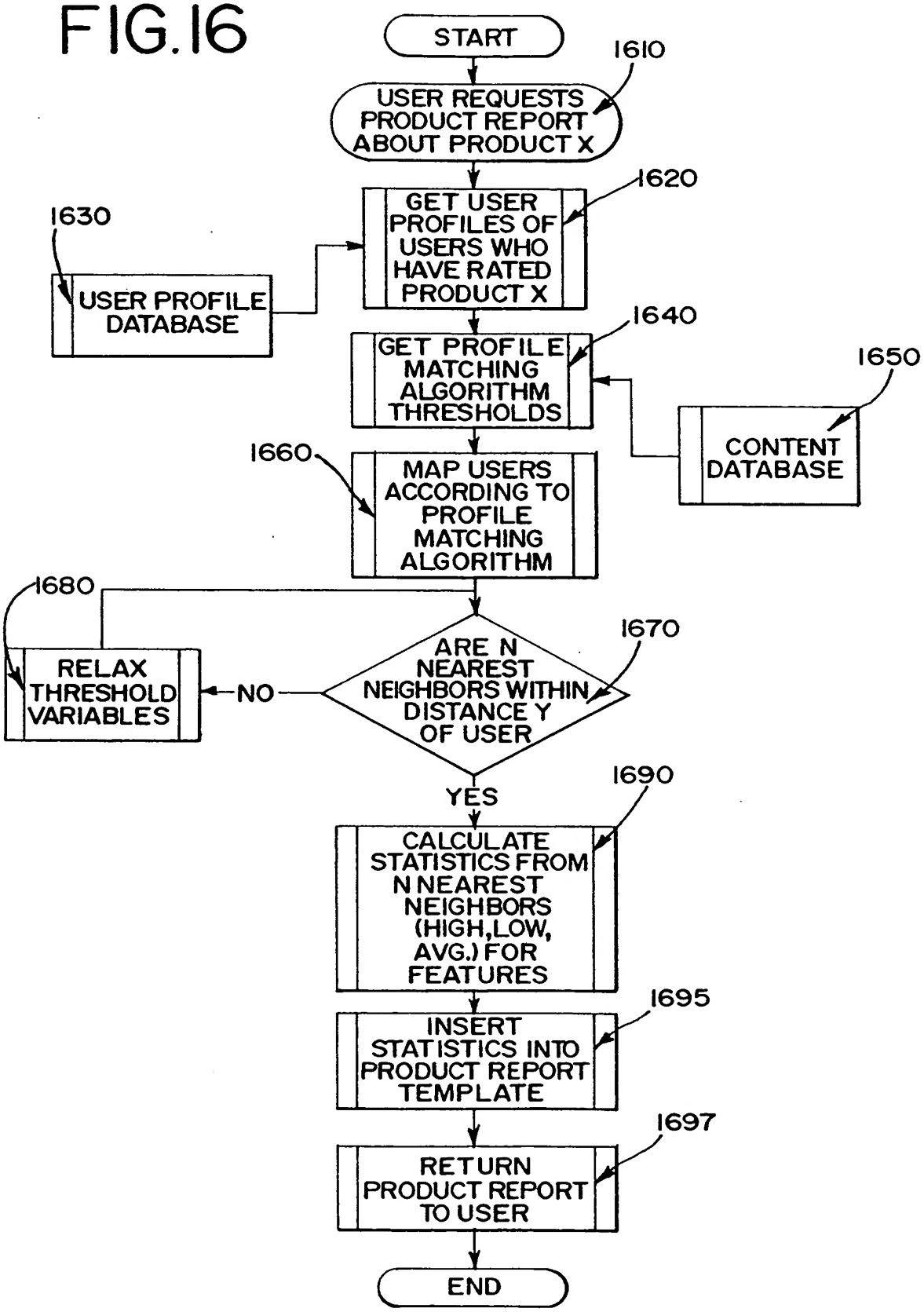

START
1510
USER REQUESTS AGENT STATISTICS PAGE
1520
1540
GET USER STATISTICS
USER PROFILE DATABASE
1540
NORMALIZE STATISTICS
1550
1560
GET STATISTICS FORMULAS
CONTENT DATABASE
1570
GENERATE GRAPHS WITH STATISTICS
1580
CREATE STATISTICS PAGE
1590
RETURN STATISTICS PAGE TO USER
END

FIG.16


START
1610
USER REQUESTS PRODUCT REPORT ABOUT PRODUCT X
1620
GET USER PROFILES OF USERS WHO HAVE RATED PRODUCT X
1630
USER PROFILE DATABASE
1640
GET PROFILE MATCHING ALGORITHM THRESHOLDS
1650
CONTENT DATABASE
1660
MAP USERS ACCORDING TO PROFILE MATCHING ALGORITHM
1680
RELAX THRESHOLD VARIABLES
NO
1670
ARE N NEAREST NEIGHBORS WITHIN DISTANCE Y OF USER
YES
1690
CALCULATE STATISTICS FROM N NEAREST NEIGHBORS (HIGH,LOW, AVG.) FOR FEATURES
1695
INSERT STATISTICS INTO PRODUCT REPORT TEMPLATE
1697
RETURN PRODUCT REPORT TO USER
END

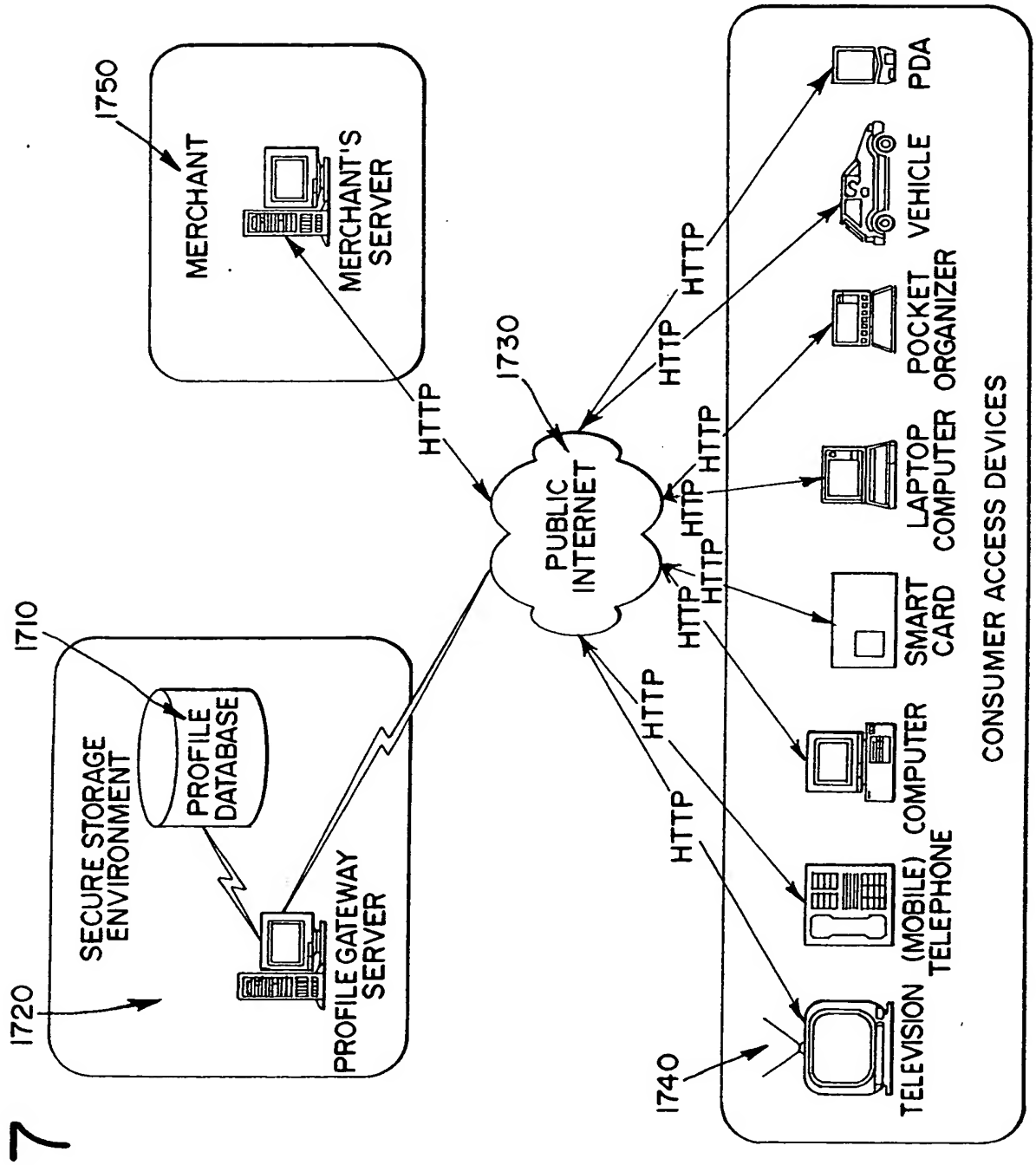

1750
MERCHANT
MERCHANT'S SERVER
HTTP
1730
PUBLIC INTERNET
HTTP
1710
SECURE STORAGE ENVIRONMENT
PROFILE DATABASE
PROFILE GATEWAY SERVER
1720
HTTP
HTTP
HTTP
HTTP
HTTP
HTTP
HTTP
HTTP
PDA
VEHICLE
POCKET ORGANIZER
LAPTOP COMPUTER
SMART CARD
COMPUTER
(MOBILE) TELEPHONE
TELEVISION
1740
CONSUMER ACCESS DEVICES

FIG.17

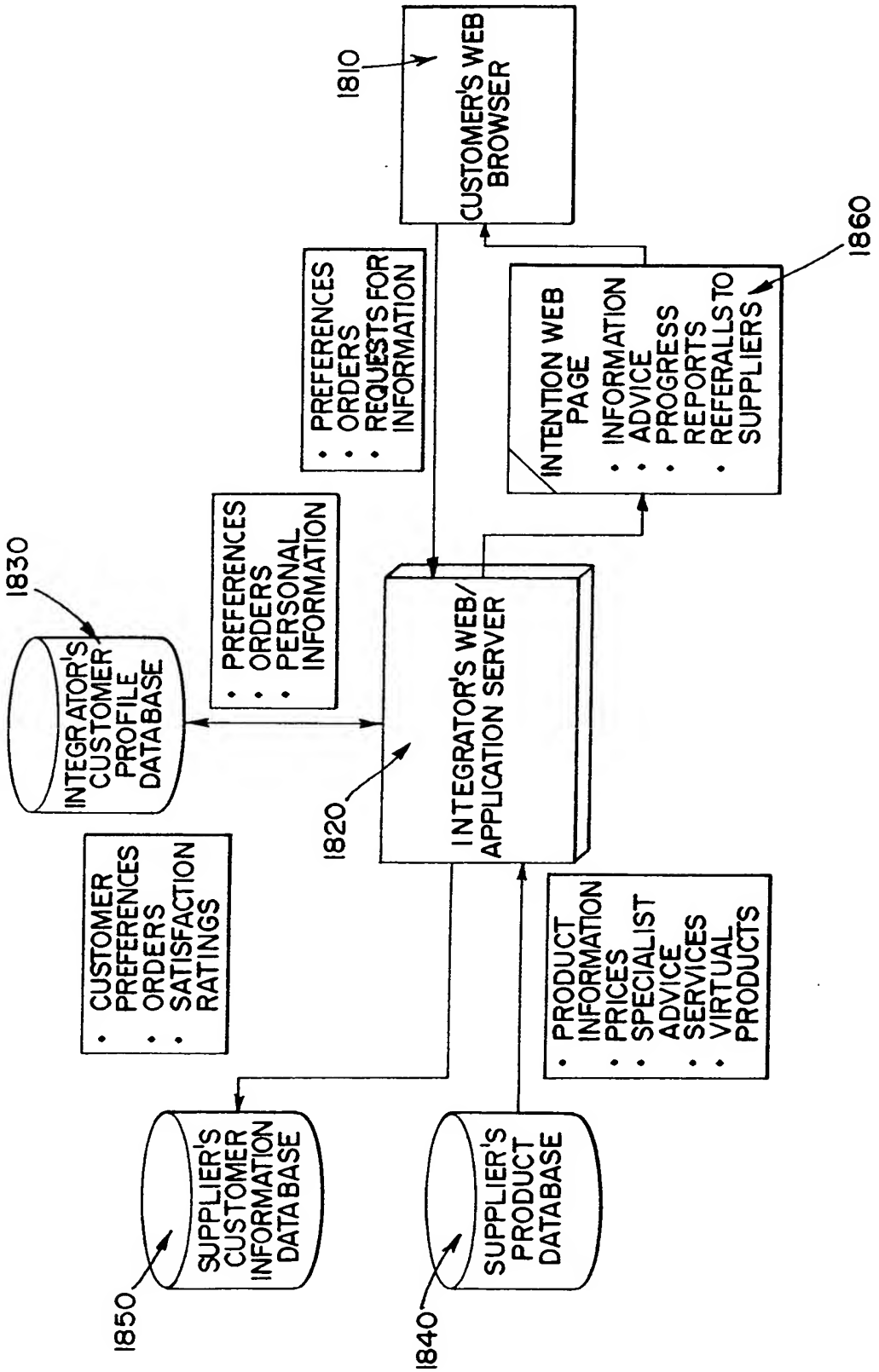

1810
CUSTOMER'S WEB BROWSER
1860
INTENTION WEB PAGE
• INFORMATION
• ADVICE
• PROGRESS REPORTS
• REFERALLS TO SUPPLIERS
• PREFERENCES
• ORDERS
• REQUESTS FOR INFORMATION
1830
INTEGRATOR'S CUSTOMER PROFILE DATABASE
• PREFERENCES
• ORDERS
• PERSONAL INFORMATION
1820
INTEGRATOR'S WEB/ APPLICATION SERVER
• CUSTOMER PREFERENCES
• ORDERS
• SATISFACTION RATINGS
• PRODUCT INFORMATION
• PRICES
• SPECIALIST ADVICE
• SERVICES
• VIRTUAL PRODUCTS
1850
SUPPLIER'S CUSTOMER INFORMATION DATABASE
1840
SUPPLIER'S PRODUCT DATABASE

FIG.18

FIG. 19

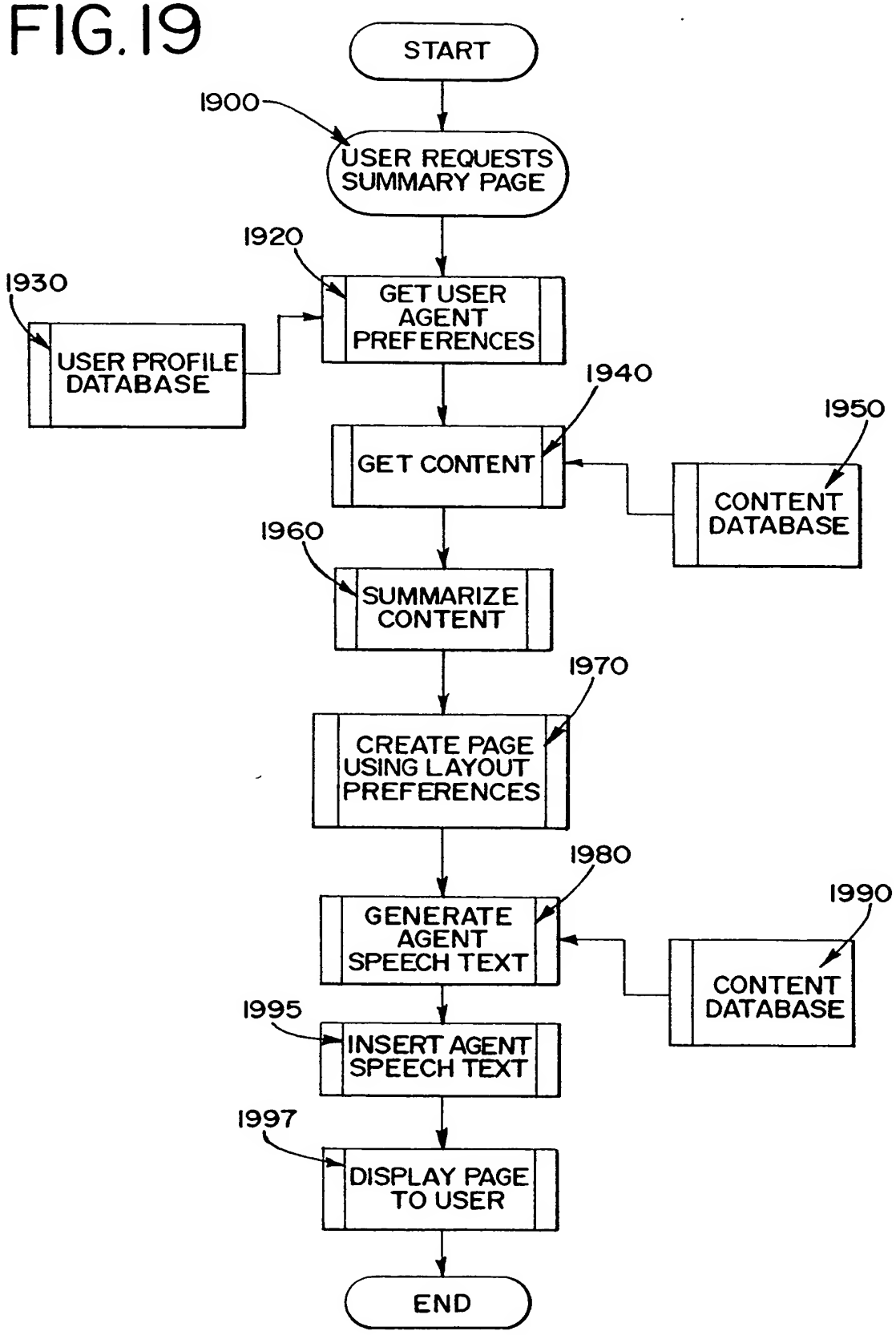
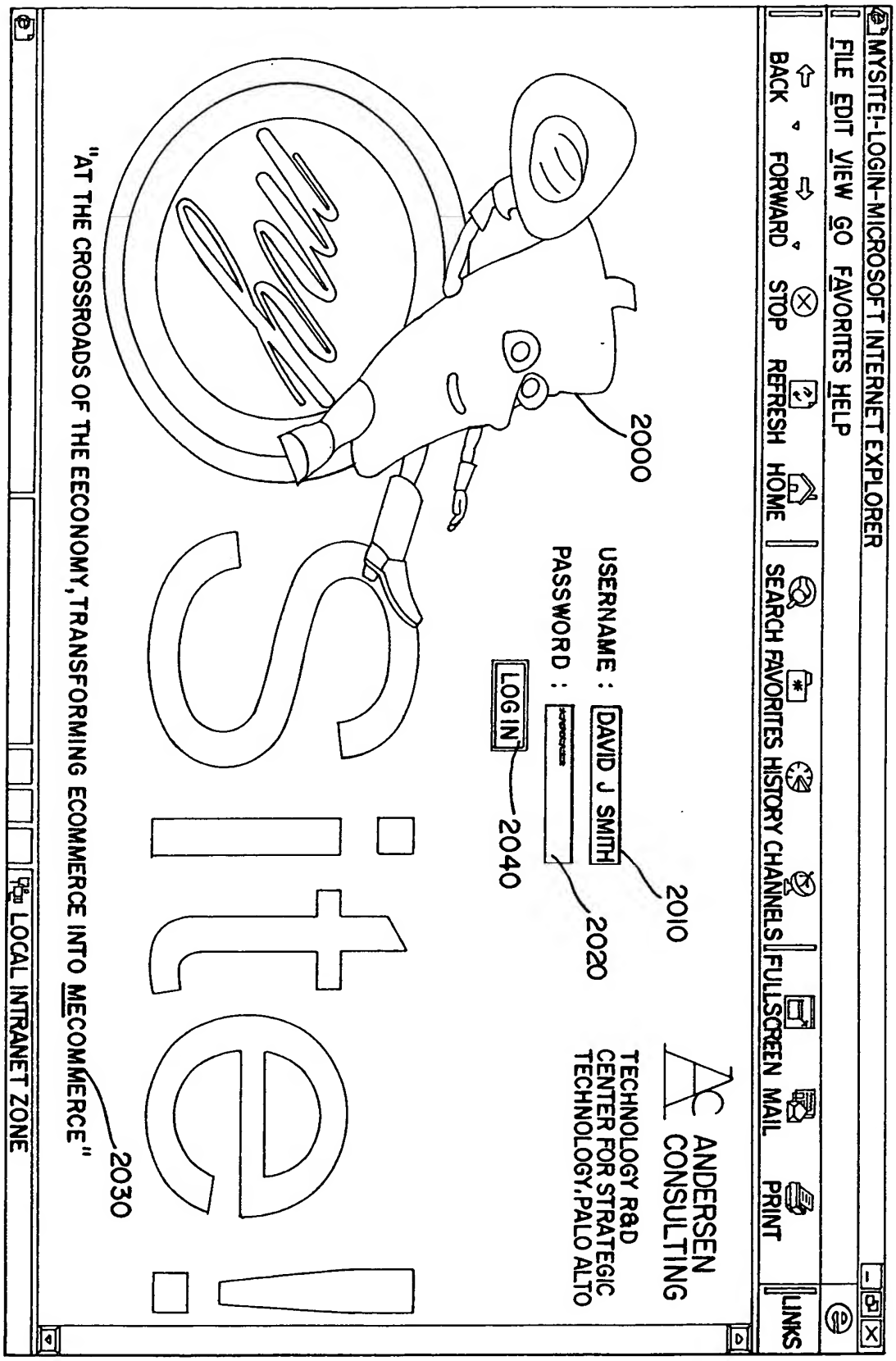
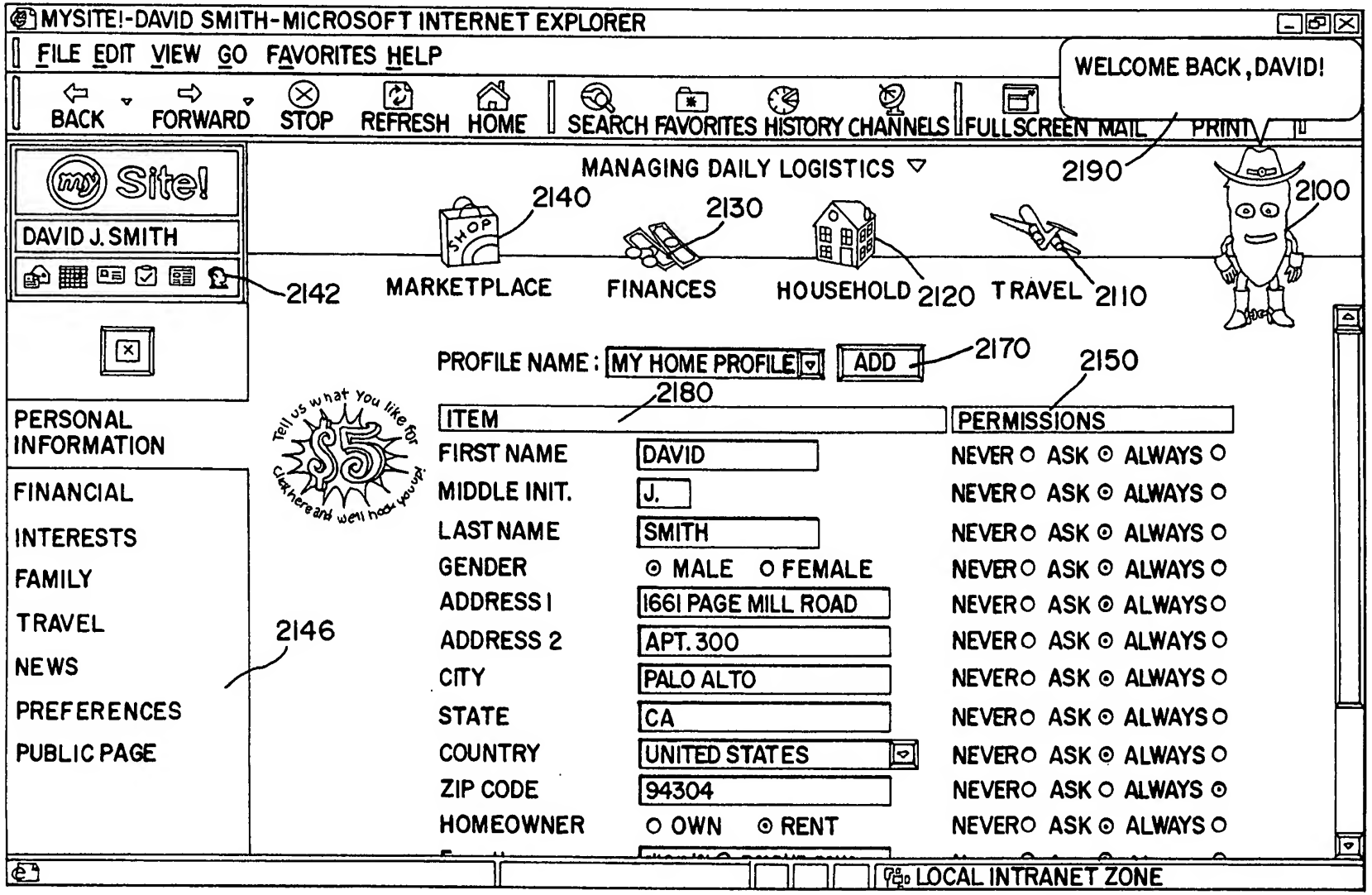

START
1900
USER REQUESTS SUMMARY PAGE
1920
GET USER AGENT PREFERENCES
1930
USER PROFILE DATABASE
1940
GET CONTENT
1950
CONTENT DATABASE
1960
SUMMARIZE CONTENT
1970
CREATE PAGE USING LAYOUT PREFERENCES
1980
GENERATE AGENT SPEECH TEXT
1990
CONTENT DATABASE
1995
INSERT AGENT SPEECH TEXT
1997
DISPLAY PAGE TO USER
END

FIG.20


MYSITE!-LOGIN-MICROSOFT INTERNET EXPLORER
FILE EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY CHANNELS FULLSCREEN MAIL PRINT LINKS
2000
USERNAME : DAVID J SMITH
2010
PASSWORD :
2020
LOG IN
2040
ANDERSEN CONSULTING
TECHNOLOGY R&D CENTER FOR STRATEGIC TECHNOLOGY, PALO ALTO
"AT THE CROSSROADS OF THE EECONOMY, TRANSFORMING ECOMMERCE INTO MECOMMERCE"
2030
LOCAL INTRANET ZONE

Inventor Names: Chad BURKEY, et al.
Title of Invention: A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR ADVANCED INFORMATION GATHERING FOR TARGETED ACTIVITIES
Serial No. 10/748,376 Docket No. 10022-435
Filing Date: December 29, 2003
Sheet 20 of 25

FIG.21



Inventor Names: Chad BURKEY, et al.
Title of Invention: A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR ADVANCED INFORMATION GATHERING FOR TARGETED ACTIVITIES
Serial No. 10/748,376 Docket No. 10022-435
Filing Date: December 29, 2003
Sheet 21 of 25

FIG.22

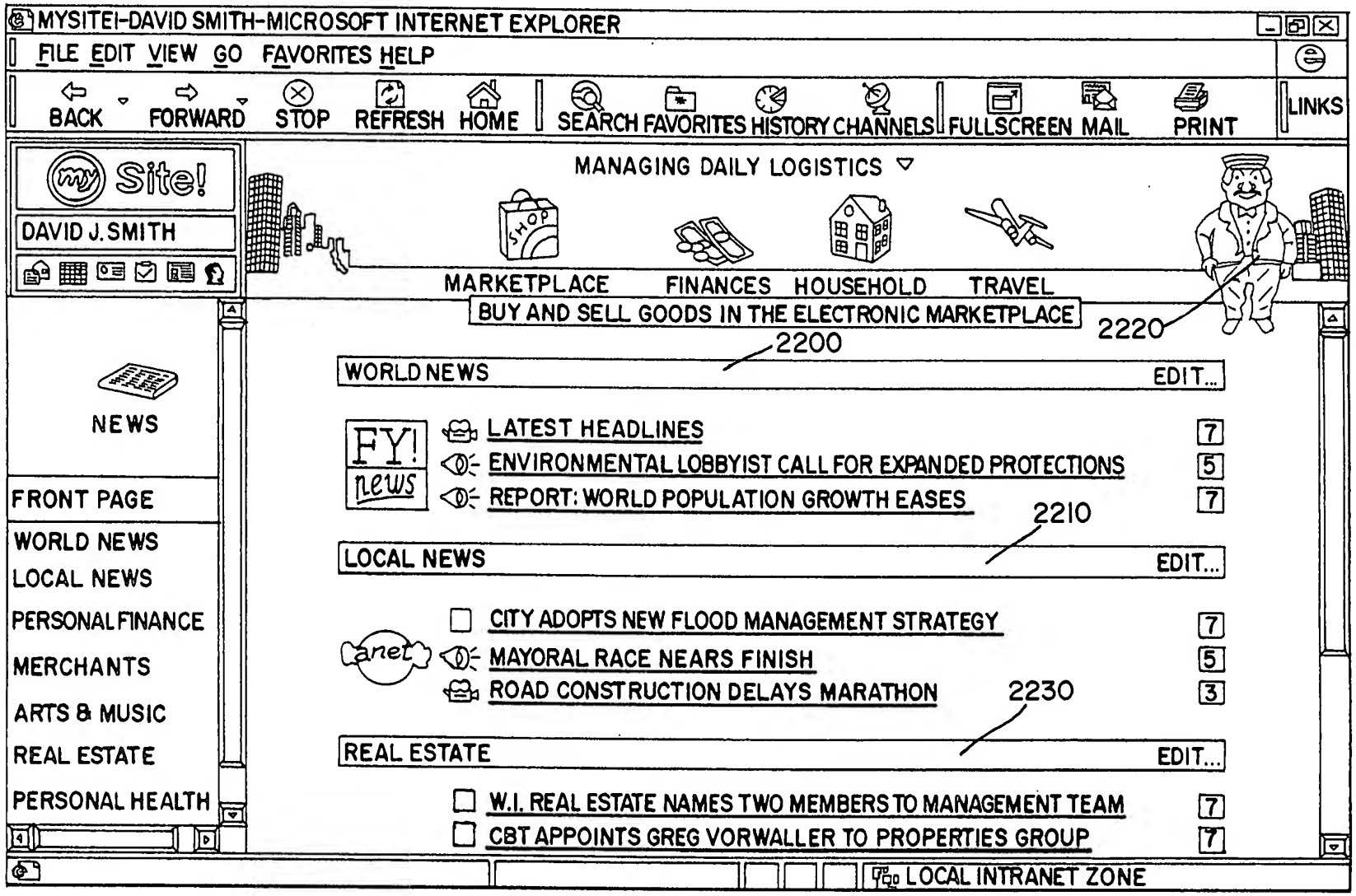


FIG. 23

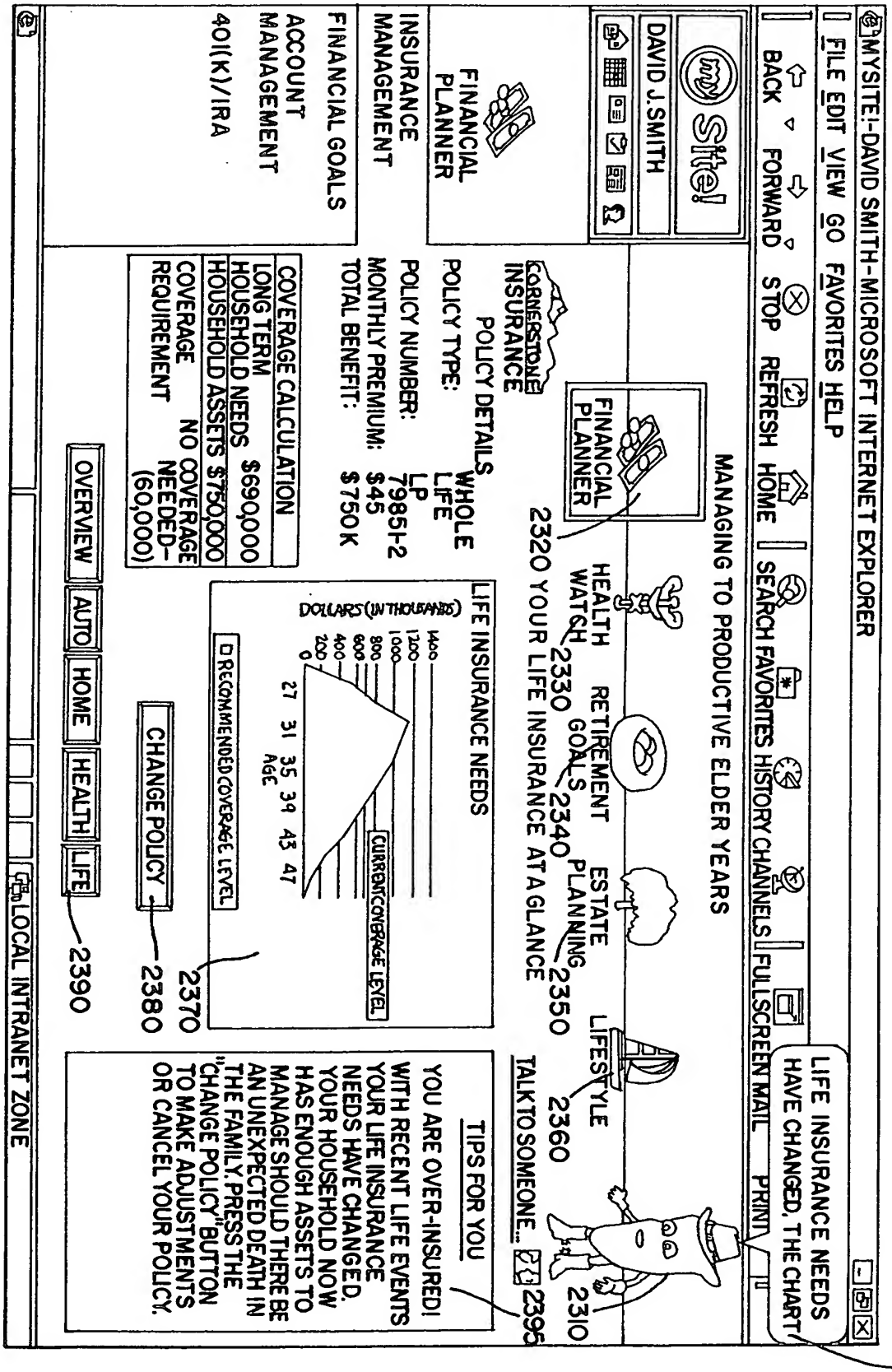

MYSITE!-DAVID SMITH-MICROSOFT INTERNET EXPLORER
FILE EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY CHANNELS FULLSCREEN MAIL PRINT
my Site!
DAVID J.SMITH
MANAGING TO PRODUCTIVE ELDER YEARS
LIFE INSURANCE NEEDS HAVE CHANGED, THE CHART!
2300
2310
FINANCIAL PLANNER
FINANCIAL PLANNER
INSURANCE MANAGEMENT
FINANCIAL GOALS
ACCOUNT MANAGEMENT
401(K)/IRA
HEALTH WATCH
RETIREMENT GOALS
ESTATE PLANNING
LIFESTYLE
2320 YOUR LIFE INSURANCE AT A GLANCE
2330
2340
2350
2360
TALK TO SOMEONE...
2395
CORNERSTONE INSURANCE
POLICY DETAILS
POLICY TYPE: WHOLE LIFE
POLICY NUMBER: LP 79851-2
MONTHLY PREMIUM: $45
TOTAL BENEFIT: $750K
COVERAGE CALCULATION
LONG TERM HOUSEHOLD NEEDS $690,000
HOUSEHOLD ASSETS $750,000
COVERAGE REQUIREMENT NO COVERAGE NEEDED- (60,000)
LIFE INSURANCE NEEDS
DOLLARS (IN THOUSANDS)
1400
1200
1000
800
600
400
200
0
27 31 35 39 43 47
AGE
CURRENT COVERAGE LEVEL
RECOMMENDED COVERAGE LEVEL
2370
CHANGE POLICY
2380
TIPS FOR YOU
YOU ARE OVER-INSURED! WITH RECENT LIFE EVENTS YOUR LIFE INSURANCE NEEDS HAVE CHANGED. YOUR HOUSEHOLD NOW HAS ENOUGH ASSETS TO MANAGE SHOULD THERE BE AN UNEXPECTED DEATH IN THE FAMILY. PRESS THE "CHANGE POLICY" BUTTON TO MAKE ADJUSTMENTS OR CANCEL YOUR POLICY.
OVERVIEW
AUTO
HOME
HEALTH
LIFE
2390
LOCAL INTRANET ZONE

FIG.24

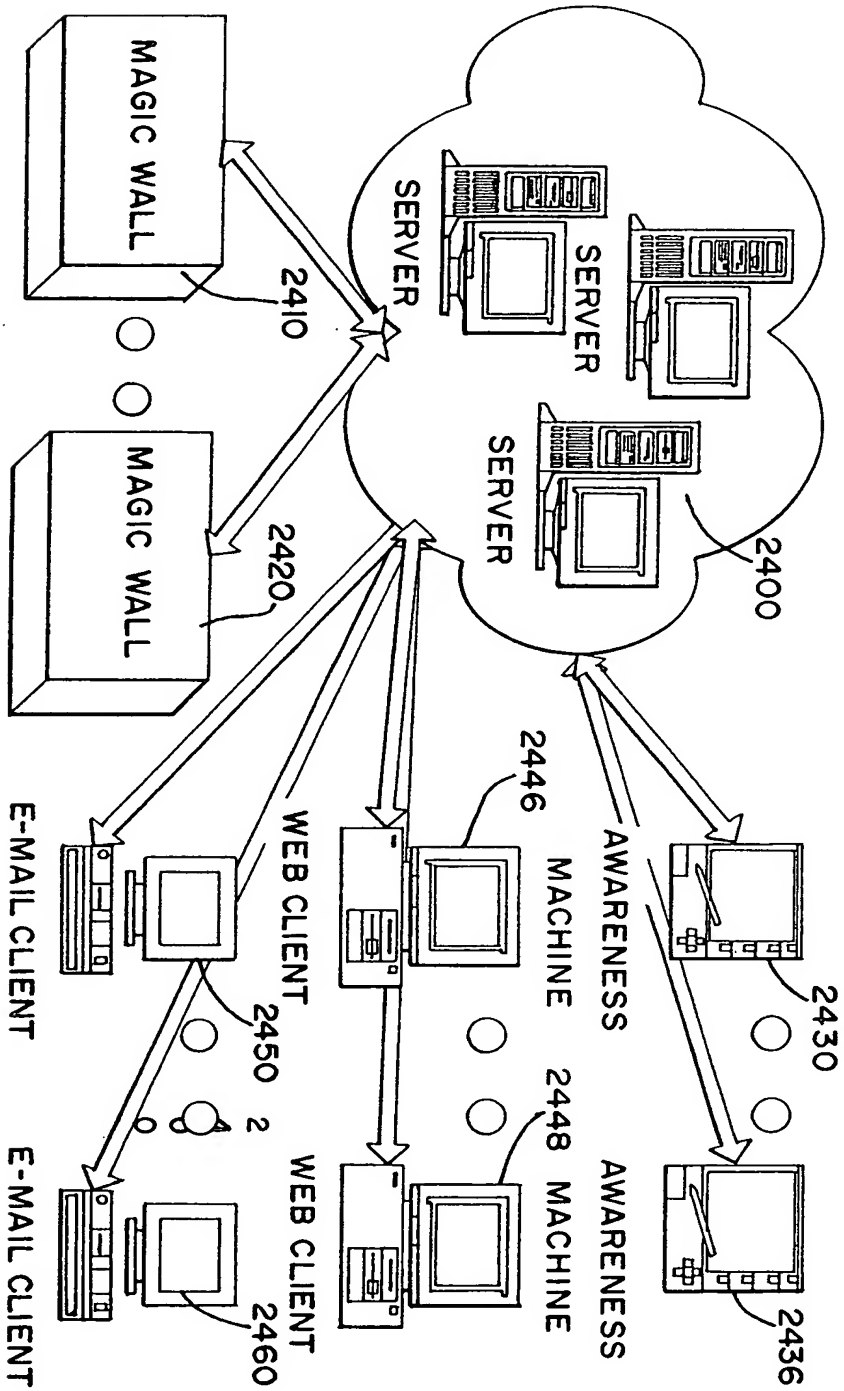
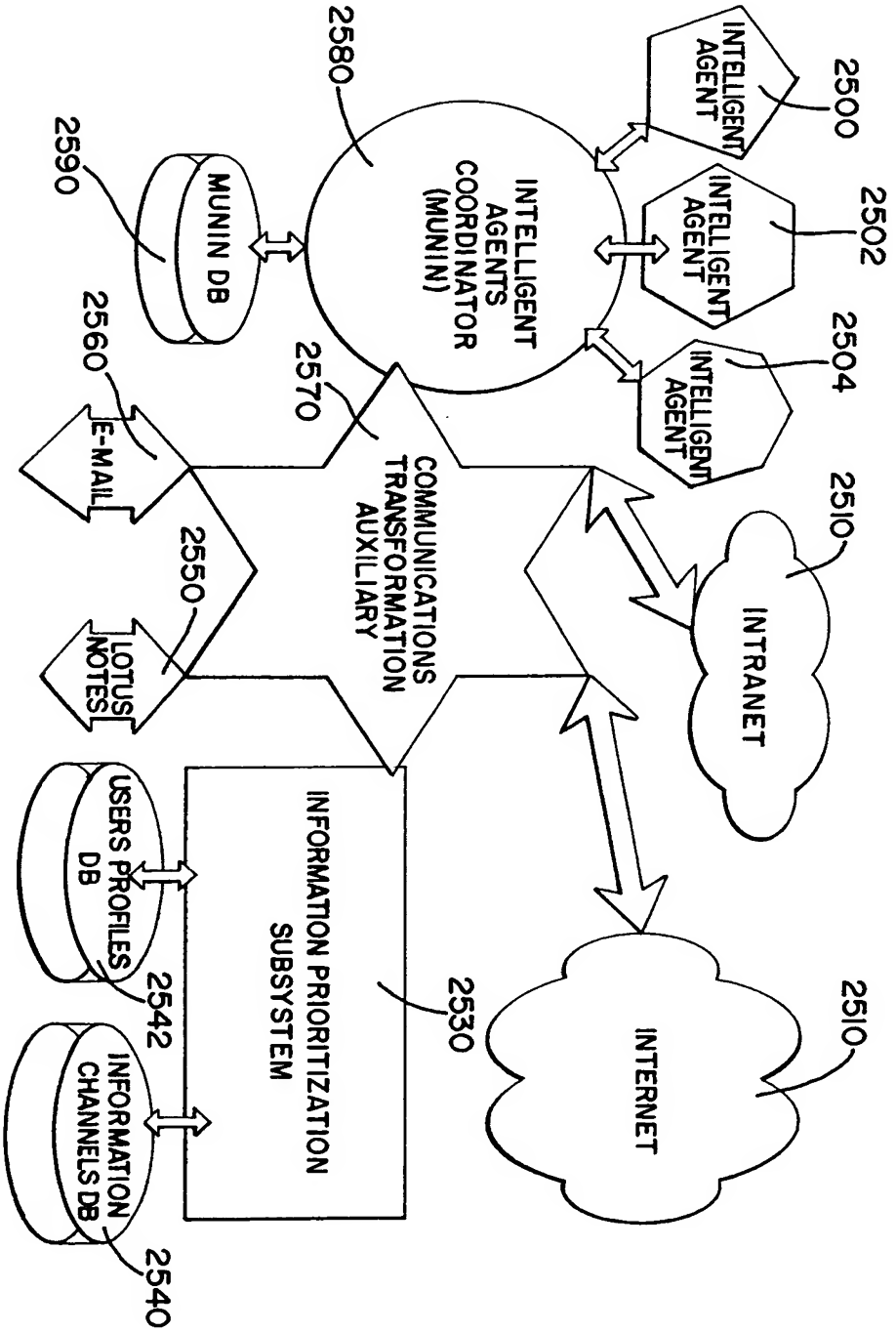

MAGIC WALL
2410
MAGIC WALL
2420
SERVER
SERVER
SERVER
2400
E-MAIL CLIENT
WEB CLIENT
2450
2
E-MAIL CLIENT
WEB CLIENT
2460
2446
MACHINE
2448
MACHINE
AWARENESS
AWARENESS
2430
2436

FIG.25


INTELLIGENT AGENT
2500
INTELLIGENT AGENT
2502
INTELLIGENT AGENT
2504
2580
INTELLIGENT AGENTS COORDINATOR (MUNIN)
2590
MUNIN DB
2560
E-MAIL
2570
COMMUNICATIONS TRANSFORMATION AUXILIARY
2550
LOTUS NOTES
2510
INTRANET
2510
INTERNET
USERS PROFILES DB
2542
INFORMATION CHANNELS DB
2540
INFORMATION PRIORITIZATION SUBSYSTEM
2530

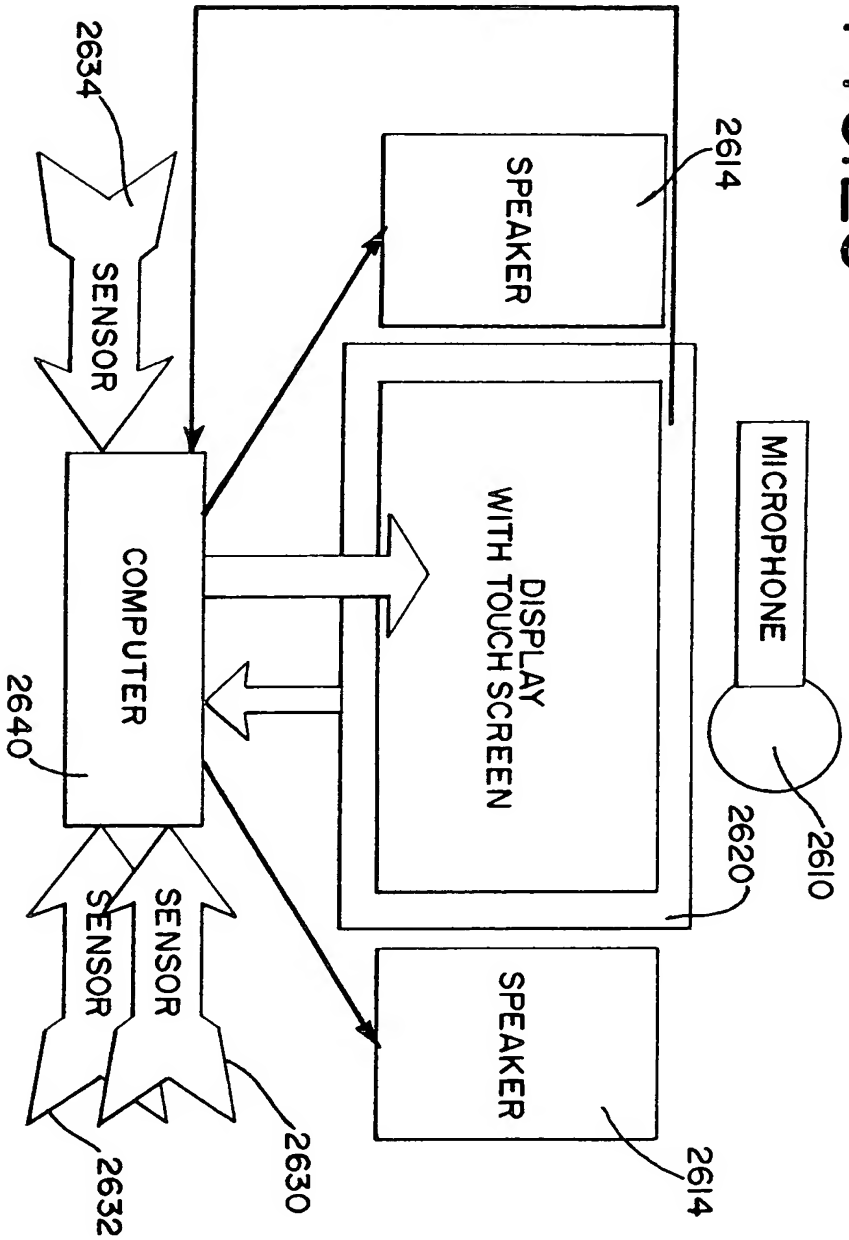

2634
SENSOR
2614
SPEAKER
MICROPHONE
DISPLAY WITH TOUCH SCREEN
COMPUTER
2640
2620
2610
SENSOR
SENSOR
SPEAKER
2632
2630
2614

FIG.26